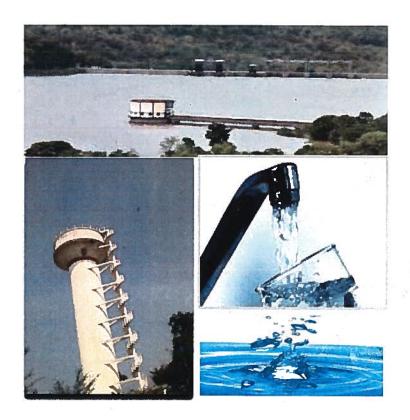


GOVERNMENT OF KARNATAKA DETAILED SCHME REPORT



DESIGN & ESTIMATES OF MULTI VILLAGE SCHEME WATER SUPPLY TO MAHADEVAPURA, CHIKKANAKANAHALLI, K SHETTYHALLI AND OTHER 16 VILLAGES IN SRIRANGAPATNA TALUK IN MANDYA DISTRICT

Estimated Cost: 2800 Lakhs

Submitted to **Executive Engineer**RWSS Division

Mandya



Koushik Consultants

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1 Salient Features

SI. No.		Salient Features
1	Name of the Scheme	MVS To Mahadevapura, Chikkanakanahalli, K Sheetyhalli & Other 16 Villages
2	Taluk	Srirangapatna
3	District	Mandya
4	No. of villages benefitted	19 Villages
	Population in 2011	18720
	Population in 2021	19664
5	Population in 2036	21180
6	Type of contamination	F, Fe & Ni
7	Projected population for 2051	22794
8	Per capita Supply	85 lpcd
9	Details of source	Cauvery River near Mahadevapura
10	Total water requirement (MLD)	2.60
11	Proposed scheme (Components)	Jack well, Water treatment plant, raw water rising mains, pure water rising mains, pure water Gravity mains, raw water and clear water pumping machinery, MBT & ZBTs
12	Water Treatment Plant capacity (MLD)	2.50
13	Project Cost (Rs. In lakhs)	2800.00 Lakhs
14	Cost Per Capita	
а	Per capita cost for 2019 population without O & M	12202
b	Per capita cost for 2019 population with O & M	14374
С	Per capita cost for 2051 population	10428

2.1 Introduction

Majority of Rural population in Srirangapatna Taluk is depended on ground water resources. This has subsequently resulted in the depletion of water table. As the degree of exploitation of ground water resources is increasing at larger scale, most of the ground water based scheme is also getting affected, both in terms of quantity as well as quality. In order to minimize the dependence of ground water consumption, RDW&SD in response looks for the alternative and reliable source of water to these draught prone areas. Providing access to potable drinking water in adequate quantity is a major challenging task for any Government. Hence, the PRE Department of Government of Karnataka has launched Multi Village Scheme, which is aimed at improving the quality and quantity of rural water supply with sharp focus on sustainability of investments and systems for present and future generations.

Multi Village Scheme is initiated under RDW&SD by the Government of Karnataka with a desire to provide water supply and cover the maximum rural population. These Multi village scheme have been proposed to capture the economics of scale and facilitate the higher level of water service and offer a long term solutions to acute water scarcity face by many regions of rural areas.

2.2 Background of the Project

RDW&SD, Srirangapatna has taken a step to provide drinking water to 19 villages under Multi Village scheme.

Hither to Karnataka Rural Population mainly depend on ground water resources for drinking water supply. In majority of villages, ground water is generally free from bacterial and chemical contamination when tapped from aquifers through bore wells.

The general strategy practiced in the state for the past three decades is to drill bore wells for pipes and mini water supply schemes. The Piped Water Supply Schemes (PWS) extract water by pumping to elevated Over Head tanks or in Ground Level Reservoirs situated on hillock and there after distributed through a network of pipes feeding public taps and house



connections. In Mini Water Supply Scheme (MWS), the water is pumped to the Cisterns located at the ground level and water is distributed through taps provided with cisterns.

During the past three decades, Government of Karnataka is responsible for establishing as many as about 13,700 PWS Schemes and about 13,500 MWS Schemes in addition about 1,70,000 bore wells fitted with hand pumps for providing water facilities to the villages.

As per information gathered, about 68% of rural population is provided with safe drinking water in excess of 40 LPCD. About 31% of rural population is getting water between 10 to 40 LPCD and the balanced percentage does not have well established sources for drinking water.

Rural Water Supply Status in the State of Karnataka

No of Mini Water Supply Schemes (IN Use)	66700
No of Mini Water Supply Schemes (Not in Use)	47742
No of Piped Water Supply Schemes (IN Use)	56150
No of Piped Water Supply Schemes (Not in Use)	347820
No of Public taps	243259
No of House hold Taps	862818
No of Open Wells (In use)	114657
No of Open Wells (Not in use)	50585
No of Bore Wells (In Use)	138194
No of Bore Wells (Not in Use)	72185

In spite of the above substantial achievement, many villages have been very frequently facing scarcity of drinking water due to presence of high fluoride, TDS and other harmful chemicals. In order to provide safe drinking water to such villages affected with water quality problems are proposed under Rajiv Gandhi National Drinking Water Mission – Rural Water Supply Scheme by utilizing surface water as a sustainable source.

2.3 Objective of the Project

This Multi Village Water supply scheme (MVS), aims at improving the quality of life in rural areas. The overall project will assist the local government in improving the quality of water supply service delivery to achieve sustainability. As most parts of Srirangapatna Taluk is facing an acute shortage of drinking water, RDW&SD of GOK identifies Cauvery River near Mahadevpura as the source of water supply to the Project Area. The objectives of the project are to improve the quality of rural water supply service delivery and to achieve Sustainable development. The preparation of DSR will identify the existing water supply situation of these villages and design a complete system based on future demand for drinking water supply.

2.4 Scope

The scope of the Project involves preparation of Detailed Scheme Report for complete water supply scheme for 19 villages. The study will involve analysis of the existing infrastructure and demographic trend. The design will cater to the water needs of the projected population for the year 2050. The scope of the design is restricted from intake well to MBR and further from MBR to OHT through gravity mains.

2.5 Approach and Methodology

Approach and methodology for the preparation of DPR will involve collection of data and analysis of data provided by the client Koushik Consultants reviews the existing water condition of the project area and adopts the approach and methodology for the preparation of DSR. The preparation of DSR involves the collection and analysis of the data from the client. The DSR includes the design of whole water infrastructure from the river source to the distribution pipelines. The detailed engineering and design of the whole water infrastructure is in compliance with the best practices, technology and will be in compliance with standards. The design of the distribution system from MBR to OHT will be designed based on the population projections for 2051. The infrastructure design for each village from intake to the storage tank and supply of water shall adopt following steps:

- 1 Population Projection for 2051.
- 2 Demand calculation for Present and future population.



- 3 Design of intake structures.
- 4 Design of Pump station.
- 5 Design of transmission mains.
- 6 Design of OHT.
- 7 Design of Water Treatment Unit.
- 8 Design of Pipeline Distribution network.
- 9 Preparation of relevant Drawings for all structures, transmission main, pump stations.
- 10 Layout plan for transmission main, pump station.

The detailed cost estimates for each item will be done in compliance with the latest schedule of rates of RDW&SD, PWD and KWS&DB. The documentation (DSR) consists of feasible analysis for the planned water supply for all 19 villages. The conveyance for the drinking water supply from the river source at intake point will be done through pump. The water shall further treated through chlorination and stored in OHT. The treated water from the OHT will be further distributed to distribution line through gravity.



3 District and Taluk Profile

3.1 Mandya District

Mandya district is located in the southern part of Karnataka State. The District has an area of 4,961 Sqkm lying between latitudes 12° 13' N to 13° 04' N and longitudes 76° 19'E to 77° 20'E. The district is bounded on the Northwest by Hassan District, on the east by Bangalore Rural district and on the south and southwest by Mysore District. It has 7 taluks, 104 mandals and 1,354 inhabited villages.

Mandya is mainly an agricultural district. Ragi and Paddy is the two most important crops followed by pulses, sugarcane and oilseeds. Sugarcane has turned out to be veritable boon that has transformed the entire economy of the district. Mulberry plantation has gained prominence in Malavalli and Srirangapatna Taluks.

Industrially, Mandya district ranks among the few developed districts of the State. Handloom weaving and cocoon production are noteworthy economic activities of the district.

Rural Population is more or less evenly distributed in the district. The district is well endowed with good network of roads and other socio-cultural facilities. There are several tourist spots like Brindavan Gardens, Shimsha Falls, Srirangapatna and Birds sanctuary are present in this district. Mandya district has good prospects in the field of silk and mineral based industry and tourism.

3.2 Socio economic profile

As per census 2011, Mandya district has a population of 131,211.

3.3 Climate

Mandya district is endowed with comfortable climatic conditions throughout the year with an average annual temperature of 24°C and annual rainfall varying between 670-800mm.

3.4 Srirangapatna

Although situated a mere 15 km from Mysore city, Srirangapattana lies in the neighbouring district of Mandya. The entire town is enclosed by the river Kaverit form a river island, northern half of which is shown in the image to the right. While the main river flows on the eastern side of the island, the Paschima Vaahini segment of the same river flows to its west. The town is easily accessible by train from Bangalore and Mysore and is also well-connected by road, lying as it does just off the Bangalore-Mysore highway. The highway passes through this town and special care was taken to minimize any impact on the monuments.

Religious significance

The town takes its name from the celebrated Ranganathaswamy temple which dominates the town, making Srirangapattana one of the most importantVaishnavite centers of pilgrimage in south India. The temple was built by the Ganga dynasty rulers of the area in the 9th century; the structure was strengthened and improved upon architecturally some three centuries later. Thus, the temple is a medley of the Hoysala and Vijayanagar styles of temple architecture.

Tradition holds that all the islands formed in the Kaveri River are consecrated to Sri Ranganathaswamy, and large temples have been built in very ancient times dedicated to that deity on the three largest islands. These three towns, which constitute the main pilgrimage centers dedicated to Ranganathaswamy, are:

Adi Ranga - at Srirangapattana

Madhya Ranga - at Shivanasamudra

Antya Ranga - at Srirangam

The presence of the Kaveri River is in itself considered auspicious and sanctifying. The Paschima Vaahini section of the Kaveri at Srirangapattana is considered especially sacred; the pious come from far and wide to immerse the ashes of the departed and perform obsequies to their ancestors in these waters.

Geography

Srirangapatna is located at 12.41°N 76.7°E. It has an average elevation of 679 metres (2227 feet).

History

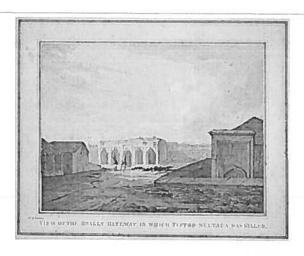
Srirangapattana has since time immemorial been an urban center and place of pilgrimage. During the Vijayanagar empire, it became the seat of a major viceroyalty, from where several nearby vassal states of the empire, such as Mysore and Talakad, were overseen. When, perceiving the decline of the Vijayanagar empire, the rulers of Mysore ventured to assert independence, Srirangapattana was their first target. Raja Wodeyar vanquished Rangaraya,[2] the then viceroy of Srirangapattana, in 1610 and celebrated the Navaratri festival in the town that year. It came to be accepted in time that two things demonstrated control and signified sovereignty over the Kingdom of Mysore by any claimant to the throne:

Successful holding of the 10-day-long Navaratri festival, dedicated to Chamundeshwari, patron goddess of Mysore;

Control of the fort of Srirangapattana, the fortification nearest to the capital city of Mysore.

Srirangapattana remained part of the Kingdom of Mysore from 1610 to after India's independence in 1947; as the fortress closest to the capital city of Mysore, it was the last bastion and defence of the kingdom in case of invasion.

Hyder and Tipu



A view of the Hoally Gateway, Srirangapatnam, where Tipu Sultan was killed. Illustration by Thomas Sydenham, c.1799



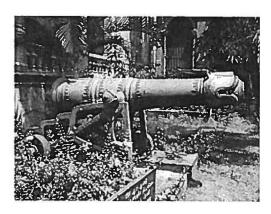
A flintlock blunderbuss, made for Tippu Sultanin Seringapatam in 1793-94. Tippu Sultan used many Western craftsmen, and this gun reflects the most up-to-date technologies of the time.[3]

Srirangapattana became the de facto capital of Mysore under Hyder Ali and Tipu Sultan.[4][5] When Tipu finally dispensed with the charade of deference to the legitimate Wodeyar Maharaja who was actually his captive, and proclaimed the "Khudadad State" under his own kingship, Srirangapattana became de jure the capital of that short-lived political entity. In that heady period, the state ruled by Tipu extended its frontiers in every direction, encompassing a major portion of South India. Srirangapattana flourished as the cosmopolitan capital of this powerful state. Various Indo-Islamic monuments that dot the town, such as Tipu Sultan's palaces, the Darya Daulat and the Jumma Maseedi (Friday congregational mosque), Koushik Consultants, Mysore

date from this period.

Battle of Sringapatam, 1799

Main article: Siege of Seringapatam (1799)



5

Cannon used by Tippu Sultan in the battle of Sringapatam 1799

Srirangapattana was the scene of the last and decisive battle fought between Tipu Sultan and a combined force of 50,000 men provided equally by theNizam of Hyderabad and the East India Company under the overall command of General George Harris. This battle was the last engagement of the Fourth Anglo-Mysore War. The Battle of Seringapatam, 1799, was truly momentous in its historic effects.

At the battle's climax, Tipu Sultan was killed within the fort of Seringapatam, betrayed by one of his own confidants; the spot where he ultimately fell is marked by a memorial. For the last time in history, Seringapatam had been the scene of political change in the Sultanate of Mysore. The joint forces of the victorious army proceeded to plunder Seringapatam and ransack Tipu's palace. Apart from the usual gold and cash, innumerable valuables and objets d'art, not excepting even the personal effects of Tipoo Sultan, his rich clothes and shoes, sword and firearms, were shipped to England.

While most of this is now to be found in the British Royal Collection and in the Victoria and Albert Museum, some articles have occasionally become available at auctions and have been retrieved for their native land. The sword of Tipu Sultan has been acquired by Vijay Mallya, a

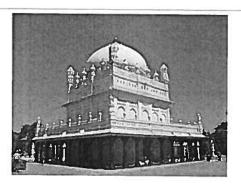
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liquor baron from Karnataka, who purchased the same at a Sotheby's auction.

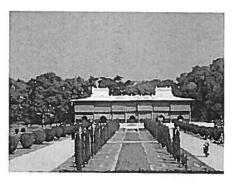
Much of the site of the Battle is still intact including the ramparts, the Water Gate, the place where the Tippu Sultan's body was found, the area where the British prisoners were held and the site of the destroyed palace.

Tipu's Tiger, an automaton in the Victoria & Albert Museum, was captured at the battle.

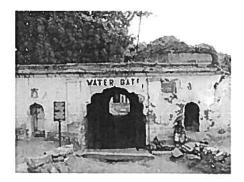
Places of interest



The Mausoleum of Tipu Sultan



Daria Daulat, The Palace of Tipu Sultan



Water Gate, Srirangapatana



"Sangama" the amalgamation of 3 holy rivers Kaveri River, Kabini River, Hemavati River

The town is famous for a very ancient temple dedicated to Sri Ranganathaswamy, a form of Lord Vishnu. There is also Kalyani Siddhi vinayaka temple in front of the Sri Ranganathaswamy Temple. Other temples in Srirangapatna include the Lakshminarasimha Swamy Temple, Jyothi Mahaswara Temple, Bidhcotta Ganesha Temple, Panduranga Swamy Temple, the Sathyanarayana Swamy Temple, the Anjunaya Swamy Temple, the Ayyapa Temple, the Gangadhareswara Swamy Temple, and RaganathaNagara Ganesha Temple, surrounding Srirangapatna in fort 8 Ganesh & Anjunaya temples. The Karighatta (Black Hill) and its temple of Lord Srinivasa is situated a few kilometres from the town. The deity is that of Kari-giri-vasa (one who resides on the black hill). The renowned Nimishambha Temple is located in the nearbydistrict of Ganjam.

Other attractions in Srirangapatna include the Jumma Masjid (a Mosque) and the Daria Daulat Gardens. Near the town is the Rangantittu Bird Sanctuary, which is the breeding site for

several bird species, including the Painted Stork, Open-billed Stork, Black-headed Ibis, River Tern, Great Stone Plover and Indian Shag. Located 27 km upstream from the town is the spectacular Shivanasamudra Falls, the second biggest waterfall inIndia and the 16th largest in the world. Srirangapatna also hosts the summer palace of Tipu Sultan.

In Literature[edit]

- Bernard Cornwell's Sharpe's Tiger is a fictionalised account of the Battle of Seringapatam.
 It concentrates on the exploits of the fictional character of Richard Sharpe, and the historic Arthur Wellesley, later the Duke of Wellington.
- Wilkie Collins' The Moonstone includes a prologue that takes place during the Battle of Srirangapatna, entitled "The Storming of Seringapatam (1799)," during which a British officer steals a sacred Hindu diamond that becomes the mystery at the centre of the novel.
- John Forster mentions in "The Life of Charles Dickens" that in a childhood playground of C.D., "he had been... delivered from the dungeons of Seringapatam, an immense pile ('of haycock'), by the victorious British ('boy next door and his two cousins')..." See pg. 10 of the Everyman edition published in 1969. First published: London; Chapman and Hall, 1872-1874 in 3 volumes.

The location of the villages in the project area is shown in the table:

Villages	Latitude (N)	Longitude (E)
Mahadevapura	12°23'26.09"N	76°46'31.57"E
Krishnapura	12°23'45.92"N	76°44'45.94"E
Bidarahalli	12°21'4.98"N	76°47'27.03"E
Channahalli	12°21'34.71"N	76°46'48.64"E
Taripura	12°22'6.05"N	76°45'34.95"E
Chikkanakanahalli	12°20'6.47"N	76°44'57.98"E
Bonthagahalli	12°20'6.47"N	76°44'57.98"E
Kokkarehundi	12°18'48.20"N	76°44'55.37"E
Huralikyathanahalli	12°19'48.39"N	76°44'1.19"E

MVS To Mahadevapura, Chikkanakanahalli, K Sheetyhalli & Other 16 Villages in Srirangapatna Taluk, Mandya Diestrict

Villages	Latitude (N)	Longitude (E)
Sugganahalli	12°19'38.19"N	76°45'9.16"E
Kemmannupura	12°21'23.80"N	76°45'25.22"E
Hampapura	12°20'56.65"N	76°43'42.13"E
Chinnenahalli	12°28'35.11"N	76°43'46.94"E
Garudana Ukkada	12°26'31.37"N	76°43'42.46"E
Gowripura	12°26'26.24"N	76°43'24.46"E
K. Shettyhalli	12°26'21.16"N	76°42'44.89"E
M. Shettyhalli	12°27'17.79"N	76°43'17.15"E
Mallegowdanakoppalu	12°28'12.20"N	76°44'10.84"E
Sabbanakuppe	12°27'46.17"N	76°43'59.12"E

Source: Google Map

4 Population Projection and Design

4.1 Population Projection

Based on the growth of past decades, the future population of the villages has been projected using four methods. As the village is located in a remote area, these villages are hardly influenced by major growth factors and hence have very slow growth rate. As the growth rate is slow, National Average method has been considered for the calculation of water demand for the future. The calculated National average method shows that the population for the all villages for the year 2020 to 2050. The methods for population projections are as follows are:

Village Name	Population details as per									
	2011	2019	2021	2031	2036	2041	2051			
Mahadevapura	1510	1571	1586	1666	1708	1750	1838			
Krishnapura	71	74	75	79	81	83	88			
Bidarahalli	2129	2215	2236	2348	2407	2466	2590			
Channahalli	1618	1683	1699	1784	1829	1874	1968			
Taripura	664	691	698	733	752	770	809			
Chikkanakanahalli	1385	1441	1455	1528	1567	1605	1686			
Bonthagahalli	1406	1463	1477	1551	1590	1629	1711			
Kokkarehundi	938	976	985	1035	1061	1087	1142			
Huralikyathanahalli	879	915	923	970	995	1019	1070			

MVS To Mahadevapura, Chikkanakanahalli, K Sheetyhalli & Other 16 Villages in Srirangapatna Taluk, Mandya Diestrict

	18720	19479	19664	20655	21180	21698	22794
Sabbanakuppe	227	237	239	251	258	264	278
Mallegowdanakoppalu	172	179	181	191	196	201	212
M. Shettyhalli	1824	1897	1916	2012	2063	2113	2219
K. Shettyhalli	1733	1803	1820	1911	1959	2007	2108
Gowripura	566	589	595	625	641	657	690
Garudana Ukkada	818	851	859	902	925	948	996
Chinnenahalli	1054	1097	1107	1163	1193	1222	1284
Hampapura	858	893	901	947	971	995	1045
Kemmannupura	229	239	241	254	261	267	281
Sugganahalli	639	665	671	705	723	741	779

4.3 Water Demand calculation

The demand calculation for 19 villages is calculated based on the need for the projected year 2050. The drinking water supply to all the villages is considered at a rate of 85 LPCD as per RDW&SD norms. 20% system loss is considered as per the client advised. The projected demand for 2051 is 2.60 MLD of water.

MVS To Mahadevapura, Chikkanakanahalli, K Sheetyhalli & Other 16 Villages in Srirangapatna Taluk, Mandya Diestrict

Village Name	Popula	tion det	ails as p	er				Deman d @	Daily Deman	Daily Demand
	2011	2019	2021	2031	2036	2041	2051	85LPCD d includi ng 20% Losses (For WTP)	includi ng 20% Losses	including 15% Losses (For Distributi on)
Mahadevapura	1510	1571	1586	1666	1708	1750	1838	156230	187476	179665
Krishnapura	71	74	75	79	81	83	88	7480	8976	8602
Bidarahalli	2129	2215	2236	2348	2407	2466	2590	220150	264180	253173
Channahalli	1618	1683	1699	1784	1829	1874	1968	167280	200736	192372
Taripura	664	691	698	733	752	770	809	68765	82518	79080
Chikkanakanah alli	1385	1441	1455	1528	1567	1605	1686	143310	171972	164807
Bonthagahalli	1406	1463	1477	1551	1590	1629	1711	145435	174522	167250
Kokkarehundi	938	976	985	1035	1061	1087	1142	97070	116484	111631
Huralikyathana halli	879	915	923	970	995	1019	1070	90950	109140	104593
Sugganahalli	639	665	671	705	723	741	779	66215	79458	76147
Kemmannupur a	229	239	241	254	261	267	281	23885	28662	27468

MVS To Mahadevapura, Chikkanakanahalli, K Sheetyhalli & Other 16 Villages in Srirangapatna Taluk, Mandya Diestrict

Hampapura	858	893	901	947	971	995	1045	88825	106590	102149
Chinnenahalli	1054	1097	1107	1163	1193	1222	1284	109140	130968	125511
Garudana Ukkada	818	851	859	902	925	948	996	84660	101592	97359
Gowripura	566	589	595	625	641	657	690	58650	70380	67448
K. Shettyhalli	1733	1803	1820	1911	1959	2007	2108	179180	215016	206057
M. Shettyhalli	1824	1897	1916	2012	2063	2113	2219	188615	226338	216907
Mallegowdanak oppalu	172	179	181	191	196	201	212	18020	21624	20723
Sabbanakuppe	227	237	239	251	258	264	278	23630	28356	27175
	18720	19479	19664	20655	21180	21698	22794	1937490	2324988	2228117

4.2 Design norms

The design norms are based on the specification of the following institution/ Department.

- 1 The Technical Specifications of RDW&SD
- 2 Central Public Health and Environmental Engineering Organization (CPHEEO)
- 3 Indian Standard Institution
- 4 Schedule of rates of Rural Development Engineering Department
- 5 Schedule rates of Public Works Department (PWD), Mysore Circle
- 6 Schedule rates of KUWS&DB, Karnataka Board.

SI No	Components	Design Norms
1	Source	Cauvery River near Mahadevpura
2	Design Period of the Project	30years
3	Population Projection	Trend of population Growth in the previous decade(2001-2011) 5%.
4	Per capita water supply	85 lpcd
5	System Loss (20%)	5% transmission loss 15% distribution loss
6	Storage Capacity	Tank of Capacity for half day requirement
7	Gravity main and distribution pipes	HDPE PN8, PN10, PN 12.5, PN 16
7	Water requirement per hr (20 hrs/day)	130000 Ltr/hr
8	Type of Filter	Rapid sand filter
9	Operation and maintenance of water Supply-5 year (in Lakhs)	423.13
10	Total Cost of the Project (Rs in Lakhs)	2800.00

5 Details of Existing Water Supply and proposed water infrastructure

However, river Shimsha and Cauvery rivers flow in the Taluk of Srirangapatna, the project area has no perennial water supply at present. The water supply for all the villages in the project area is through ground water source. As per Preliminary Scheme report, the investigation carried out by RDW&SD and Irrigation department reveals that Cauvery River has been proposed for the water supply scheme for Mahadevapura, Chikkanakanahalli, K Sheetyhalli & Other 16 Villages of Srirangapatna Taluk.

5.1 Existing Water Supply

The existing water supply situation in these villages has been briefed below based on the data provided by the department and the same is enclosed vide Annexure IV. The DSR ensures the water supply scheme in Village Mahadevapura, Chikkanakanahalli, K Sheetyhalli & Other 16 Villages. The design for this water supply scheme considered is economical and easy for operation and Maintenance.

6 Abstract

Fioviding	y Water supply to Mahadevapura, Chikkanakanahalli, K Mandya district	Snettynalli and othe	er 16 villages of
ABSTRACT			
No.	Particulars	Quantity	Amount
	A) CIVIL WORKS		
1	Construction of Intake Chamber & connecting Pipe	1 No	1446000.00
2	Construction of Jack Well cum pump house	1 No	5155000.00
3	Pumping Machinary JW to WTP	2 No	6968400.00
4	Rising Main from JW to WTP	4350 Mtrs	14546000.00
5	Construction of Aerator	1 No	430000.00
6	Providing DI Unit	1 No	600000.00
7	Construction of Flash Mixer	1 No	525500.00
8	Construction of Clarifloculator	1 No	4240000.00
9	Construction of Rapid Sand filter	1 No	5600000.00
10	Pure Water Sump	1 No	1603000.00
11	Construction of Backwash tank for RSF	1 No	999500.00

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12	Construction of Wash Water sump for RSF	1 No	639000.00
13	Construction of Main Pump House (Near P.W Sump)	1 No	685000.00
14	Construction of Pump House (Back Wash)	1 No	264000.00
15	Pumping Machinary PW sump to Back Wash Tank	2 No	118700.00
16	Rising Main From PW sump to Back Wash Tank	100 Mtrs	165000.00
17	Pumping Machinary WW sump to Aerator	2 No	118700.00
18	Rising Main From WW sump to Aerator	100 Mtrs	165000.00
19	Providing Fencing to WTP & Road, Drain Inside WTP	350 Mtrs	3421000.00
20	Rising main from Pure Water Sump to MBT	545 Mtrs	2417000.00
21	Pumping Machinary PW Sump to MBR NEAR VADIYANDAHALLI	2 No	6928100.00
22	MBT(GLSR)2.5 Lakh Itrs capacity	1 No	1545000.00
23	ZBT (GLSR) 1.5 Lakh Itrs capacity	1 No	1075000.00
24	Providing Fencing to MBT	80 Mtrs	304000.00
25	Providing Fencing to ZBT	40 Mtrs	167000.00
26	Gravity Distribution Main from MBT	66240 Mtrs	69825000.00
27	Anchor Blocks and Encasing pipe at Road Cross Drain	500 Nos	7676000.00
28	O&M Charges for 5 years (Excluding Energy Charges)		20647380.24
28	Household Connections		16000000.00
29	SCADA		27891593.20
30	Providing Dedicated Electric supply line	9.00 Kms	8800000.00
31	Cescom Deposit		2000000.00
32	O&M Charges for 5 years (Energy Charges)		21665867.52
	TOTAL		234631740.95
	Add PMC Charges @ 3%	3%	7038952.00
	Add Price variation Charges @ 15%	15%	35194761.00
	Miscellaneous and rounding charges		3134546.05
	TOTAL		280000000.00

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ-ವಿಭಾಗ, ಶ್ರೀರಂಗಪಟ್ಟಣ

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								robnia	Ion Project	Population Projection and Demand calculation	ahu calcula	IIIOII						
A COUNTY			Popula	Population details as per	ils as per			Demand @	Daily Demand	Daily Demand including 15%		ũ	xisting Stora	ge capacity	Total			-
VIIIage Name	2011	2019	2021	2031	2036	2041	2051	BSLPCD	including 20% Losses	Losses (For Distribution)			(with 2 Fillings)	llings)	Storage		Balance	Kemarks
Mahadevapura	1510	1571	1586	1666	1708	1750	1838	156230	187476		2 OHT'S x 50KL x 2 filling	200000	1 OHT'S x 200KL x 2 filling	400000	000009	000		Existing Capacity of reservoir is sufficient
Krishnapura	71	74	75	79	20	83	88	7480	8976	8602							8602	,
Bidarahalli	2129	2215	2236	2348	2407	2466	2590	220150	264180	253173	1 OHT'S x 50KL x 2 filling	100000			100000	ļ	153173	100 KL OHT Proposed
Channahalli	1618	1683	1699	1784	1829	1874	1968	167280	200736	192372	1 OHT'S x 50KL x 2 filling	100000			100000	000	92372	50 KL OHT Proposed
Taripura	664	691	869	733	752	770	809	68765	82518	79080		100000			100000	000	-	Existing Capacity of reservoir is sufficient
Chikkanakanahalli	1385	1441	1455	1528	1567	1605	1686	143310	171972	164807	2 OHT'S x 50KL x 2 filling	200000	1 OHT'S x 25KL x 2 filling	20000	250000	000	<u>"</u>	Existing Capacity of reservoir is sufficient
Bonthagahalli	1406	1463	1477	1551	1590	1629	1111	145435	174522	167250	- 0	100000			100000	000	67250	50 KL OHT Proposed
Kokkarehundi	938	926	982	1035	1061	1087	1142	97070	116484	111631	- 6	100000			100000	. 00	11631	
Huralikyathanahalli	879	915	923	970	995	1019	1070	90950	109140	104593	, <u>v</u>	100000			100000	000	4593	,
Sugganahalli	623	665	671	705	723	741	677	66215	79458	76147							76147	50 KL OHT Proposed
Kemmannupura	229	239	241	254	261	267	281	23885	28662	27468					a		27468	,
Hampapura	858	893	901	947	971	985	1045	88825	106590	102149	1 OHT'S x 50KL x 2 filling	100000			100000	000	2149	•
Chinnenahalli	1054	1097	1107	1163	1193	1222	1284	109140	130968	125511	1 OHT'S x 50KL x 2 filling	100000			10000		25511	
Garudana Ukkada	818	851	859	905	925	948	966	84660	101592	97359							97359	50 KL OHT Proposed
Gowripura	566	589	595	625	641	657	069	58650	70380	67448	1 OHT'S x 50KL x 2 filling	100000			100000	00	ш	Existing Capacity of reservoir is sufficient
K. Shettyhalli	1733	1803	1820	1911	1959	2007	2108	179180	215016	206057	2 OHT'S x 50KL x 2 filling	200000			200000	00	6057	
M. Shettyhalli	1824	1897	1916	2012	2063	2113	2219	188615	226338	216907	2 OHT'S x 50KL x 2 filling	200000			200000		16907	
Mallegowdanakoppalu	172	179	181	191	196	201	212	18020	21624	20723	1 OHT'S x 50KL x 2 filling	100000			100000	8	ш	Existing Capacity of reservoir is sufficient
Sabbanakuppe	227	237	239	251	258		278	23630	28356	27175	1 OHT'S x 50KL x 2 filling	100000			100000	8	<u> </u>	Existing Capacity of reservoir is
	18720	19479	19664	20655	21180	21698	22794	1937490	2324988	2228117								

Koushik Consultant

Providing Water Supply to Mahadevapura, Chikkanakanahalli, K Shettyhalli & Other 16 Villages in Shrirangapatna Taluk **DESIGN NORMS**

1 Per Capita Supply 85 LPCD

2 Transmission Losses, Treatment losses &

distribution losses

Pumping hours

20%

a) From Jack well to WTP 20 Hours b) From PW GLSR to Storage reservoirs 20 Hours

Project Population2051 Trend of population Growth in the previous decade(2001-2011) 5%.

6 Storage Capacity 100 % of the total demand. 7 Staging Minimum 7.50 mtrs.

PROPOSED WATER SUPPLY SCHEME

1 Population for 2011 18720 2 Intermediate Population for 2036 21180 3 Prospective Population for 2051 22794

REQUIREMENT OF WATER FOR PROSPECTIVE POPULATION (30 YEARS POPULATION)

REQUIREMENT OF WATER FOR PROSPECTIVE POPULATION (15 YEARS POPULATION)

Water Required @ 85 LPCD (P2051)x85 LPCD) 1937490 Ltrs /day

Transmission Losses, Treatment losses & 2

distribution losses 20%

2324988 Ltrs /day

Wash water requirement @ the rate 600

ltr/min/Sqm

4

171000 Ltrs /day

5 Say: 2600000 Ltrs /day

(20

Requirement of Water per Hour 6

Hrs Pumping)

130000 Ltrs / Hrs

7 Requirement of Water per Minute 2166.67 Ltrs / Mnt

8 Requirement of Water per Second

36.111 Ltrs / Sec.

0.036 cum / Sec.

9 Source Cauvery River Near Mahadevpura Bridge

Water Required @ 85 LPCD (P2036)x85 LPCD) 1800300 Ltrs /day

Transmission Losses, Treatment losses &

distribution losses 20%

2160360 Ltrs /day

Wash water requirement @ the rate 600

Itr/min/Sqm

300000 Ltrs /day

Say:

2500000 Ltrs /day

Requirement of Water per Hour (20 Hrs 6

125000 Ltrs / Hrs

Pumping)

5

2083.33 Ltrs / Mnt

7 Requirement of Water per Minute 8 Requirement of Water per Second

34.722 Ltrs / Sec. 0.035 cum / Sec.

9 Source Cauvery River Near Mahadevpura Bridge

INTAKE PIPE:

Bed Level	RL 658.160 M

Water Demand at Source point 130.00 Cum/hr

Design requirement for intake Structure 2 x 130

> 260 Cum/hr 0.07222 Cum/sec

4333.33 LPM

Assuming velocity of Flow of water in

intake window

1.2

M/SEC

Dia of pipe

0.07222 x 4 1.2 x 3.142

0.277 m

Say 0.40

m

Proposed Slope of the pipe

Velocity

1 in 300

1.20

m/sec

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DESIGN OF JACK WELL:

Water Demand at Source point

Location of Jack well

Diameter of Jack Well Proposed,

considering future expansion

HFL Reservoir MWL of reservoir

Proposed Deck level of Jack Well

(666.54 + 1)

Ground level at Proposed Jack Well

(Average)

Length of Intake Pipe

Day of the second

Proposed Bed Floor level of Jack Well

Considering Slope of intake Pipe as 1 in 300 with 1.2 M/Sec Velocity for 400 mm dia pipe with discharge 4333.33 LPM for 50 m long Intake Pipe Invert

level of Intake pipe at Jack well point for 50 m long Intake Pipe Invert level of

intake pipe at intake well be.,

Floor Level of Jack well

Bed Floor level of Jack well - 2.5 m

below intake point

Say

Pump Fixing level

130.00 Cum/hr

6 M

(Internal dia)

= RL 666.540 M

RL 661.160 M

RL 667.540 M

RL 664.240 M

= 50 M

RL 658.160 M

= 658.16 + 1/300 x 50

= RL 658.327 M

= 658.327 - 2.5.00

= 655.83

= RL 655.800 M

= RL 667.540 M

Design Population	22794]	
Per Capital Demand	85	1	
Daily Demand	2324988		
Withdrawl of water	2600000	1	
Total requiremwnt (lph)	130000		
Number of Hours of Pumping	20.00		
Safe Yield of the Source (lps)	36.111		
Value of HWC for pipe	140.00		
Initial Approximation of Pipe	200	3	
Type & Class of pipe	DI, K9		l
Length of rising main,(m)	4350	m	
RL of suction Level	656.800	im	Capacity of
RL of Pumpset	667.540	m	Balancing Tank
RL of Delevery Head	732.05	m	150 KL
Energy Charges	4.50	per kw	Staging
Proposed dia of Pipe	200.00	ľ	9
Type & Class of pipe	DI, K9		
Frictional Losses	6.123	mm	
Cost of Pipe / Rmt	2152.000		
Internal Dia	200.000		

DESIGN OF RAW WATER RISING MAIN FROM JW TO WTP TANK

		22862252.16	23971946.92	27029586.81
SL NO	Description	200	250	300
1	Discharge in(LPS)	36.111	36.111	36.111
2	Pumping Hours(hrs)	20.00	20.00	20.00
3	Value of HWC for pipe	140	140	140
4	Length of rising main,(m)	4350	4350	4350
5	Designed length of rising main,(m)	4785	4785	4785
6	Loss per 1000m length,(m)	6.1230	2.0651	0.8497
7	Total friction loss,(m) & 10%Losess for Turns,Bends	29.2987	9.8815	4.0658
8	Delivery Head,(m)(pump level to FSL)	64.5100	64.5100	64.5100
9	Suction Head,(m)	10.7400	10.7400	10.7400
10	Residual Head,(m)	3.0000	3.0000	3.0000
11	Total Head,(m)	107.5487	88.1315	82.3158
12	BHP (70% EFFICIENCY)	73.9751	60.6194	56.6192
13	KW Required	55.1854	45.2220	42.2379
14	Cost of pumping machinery at Rs. 4000 per BHP	295900.31	242477.47	226476.75
15	Total Energy charges per year = (0.746 x 20 x 365 x hp x Energy Charges)	1812840.66	1485544.29	1387515.45
16	M&R Depreciation Charges(at 7.5%of item14)	22192.52	18185.81	16985.76
17	Total O&M Charges	1835033.18	1503730.10	1404501.21
18	Capitalised value of O&M Charges (6.686*O&M)	12269031.85	10053939.45	9390495.07
19	Cost of pipe Rs/per m	2152.00	2858.00	3639.00
20	Total cost of pipes	10297320.00	13675530.00	17412615.00
21	Grand total of capitalised cost for 10 years	22862252.16	23971946.92	27029586.81

From the table it is seen that the most economical size of rising main is 200 mm dia

WATER HAMMER DESIGN FOR RISING MAIN

SL NO	DESCRIPTION	200	250	300	
1	Dia(mm)(inner dia)	200.00	250.00	300.00	
2	Class of pipe	DI, K9	D1, K9	DI, K9	
3	Length(m)	4350	4350	4350	
4	Discharge(Cumecs)	0.0361	0.0361	0.0361	
5	RL at Ground Level	667.54	667.54	667.54	
6	Fullsupply level	732.05	732.05	732.05	
7	Ground level - FSL	64.51	64.51	64.51	
8	Thickness(mm)	6.30	6.80	7.20	
9	Area of pipe(sqm)	0.0314	0.0491	0.0707	
10	Velocity(m/s)	1.15	0.74	0.51	
11	Bulk Modulus of Water	2.07E+08	2.07E+08	2.07E+08	
12	Youngs Modulus of pipe	1.70E+10	1.70E+10	1.70E+10	
13	Pressure wave velocity(m/s)	1210.1700	1184.3523	1160.6663	
14	Water hammer pressure(m)	141.7822	88.8048	60.4366	
	WATER HAMMER DESIGN FOR RISING MAIN				
15	(1) Design Pressure= StaticHead+ Water Hammer Head	209.29	156.31	127.95	
16	Design Head (m)	209.29	156.31	127.95	
17	Total Pressure (Ksc)	20.93	15.63	12.79	
18	Required Pressure Class of Pipe	DI, K9	DI, K9	DI, K9	

Based on economical & Water hammer analysis Provide 200 dia DI, K9 Pipe

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Design Population	2118	0	
Per Capital Demand	8	5	
Daily Demand	216036	ō	
Withdrawl of water for Intermediate year	250000	0	
Total requiremwnt (lph)	12500	ō	
Number of Hours of Pumping	20.0	ดี	
Safe Yield of the Source (lps)	34.72	2	
Value of HWC for pipe	140.0	ō	
Initial Approximation of Pipe	20	3	
Type & Class of pipe	DI, K	9	
Length of rising main,(m)	435	0 m	
RL of suction Level	656.80	0 m	
RL of Pumpset	667.54	o m	Bal
RL of Delevery Head	732.0	5 m	
Energy Charges	4.5	per kw	
Proposed dia of Pipe	200.0	mm	
Type & Class of pipe	DI, K9	1	<u> </u>
Frictional Losses	5.69	mm	
Cost of Pipe / Rmt	2152.00	<u> </u>	
Internal Dia	200.00		

Capacity of
Balancing Tank
150 KL
Staging

DESIGN OF RAW WATER RISING MAIN FROM JW TO WTP

28732228.61

		20132220.01	
SL NO	Description	200	
1	Discharge in(LPS)	34.722	
2	Pumping Hours(hrs)	20.00	
3	Value of HWC for pipe	140	
4	Length of rising main,(m)	4350	
5	Designed length of rising main,(m)	4785	
6 -	Loss per 1000m length,(m)	5.6940	
7	Total friction loss,(m) & 10%Losess for Turns,Bends	27.2458	
8	Delivery Head,(m)(pump level to FSL)	64.5100	
9	Suction Head,(m)	10.7400	
10	Residual Head,(m)	3.0000	
11	Total Head,(m)	105.4958	
12	BHP (45% EFFICIENCY)	108.5341	
13	KW Required	80.9665	
14	Cost of pumping machinery at Rs. 4000 per BHP	434136.46	
15	Total Energy charges per year = (0.746 x 20 x 365 x hp x Energy Charges)	2659747.89	
16	M&R Depreciation Charges(at 7.5%of item14)	32560.23	
17	Total O&M Charges	2692308.13	
18	Capitalised value of O&M Charges (6.686*O&M)	18000772.15	
19	Cost of pipe Rs/per m	2152.00	
20	Total cost of pipes	10297320.00	
21	Grand total of capitalised cost for 10 years	28732228.61	
	Provide Ashle 141 di 40	20102220.01	

From the table it is seen that the most economical size of rising main is 200 mm dia

DESIGN OF PUMPING MACHINARY JW TO WTP

	Static Head			
1	R.L. of Pump house		= 667.540	
2	F.S.L.		= 732.050	
3	R.L. at Suction level		= 656.800	
4	Total Static Head = (I.No.3 -	I.No.4)	= 75.250	m
	Frictional Losses			
1	Length of Rising Main (L)		= 4350.00	m
2	Design Length		4785.00	m
3	Dia of Pipe		= 200	DI, K9
4	Frictional Losses / 1000 m (f)		= 5.694	
5	Total Frictional Head Loss		= 27.246	m
	Head Loss			
1	Static Head		75 OF	
2	Frictional Losses		= 75.25	m
3	Residual head		= 27.25	m
0	residual flead	Total Uppel Lass	= 3.00	_m
		Total Head Loss	= 105.496	_ ^m
	Pumping Machinary			
	Yield from Source		= 34.722	LPS
			- · · · · - · ·	2. 0
	Horse Power of Pumping mad	hinary	$= (Q \times H) / (75 \times n)$	
	Where Q = Discharge in LPS		<u> </u>	
	H = Total Head			
	n = Efficiency of pump		= 75%	
			= 34.722 x 1	105 406
			75 x 7	
			10 % 1	370
			= 65.12	2
	Add Cushion as per CPHEEO			
		1.15 x 65.12 =	74.89	9
		Umar B. III		
		Hence Provide	80.00)

a. allanjath

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WATER HAMMER DESIGN FOR RISING MAIN

SL NO	DESCRIPTION	200	
1	Dia(mm)(inner dia)	200.00	
2	Class of pipe	DI, K9	
3	Length(m)	4350	
4	Discharge(Cumecs)	0.0347	
5	RL at Ground Level	667.54	
6	Fullsupply level	732.05	·
7	Ground level - FSL	64.51	
8	Thickness(mm)	6.30	
9	Area of pipe(sqm)	0.0314	
10	Velocity(m/s)	1.11	
11	Bulk Modulus of Water	2.07E+08	
12	Youngs Modulus of pipe	1.70E+10	
13	Pressure wave velocity(m/s)	1210.1700	
14	Water hammer pressure(m)	136.3286	
	WATER HAMMER DESIG	N FOR RISING M	AIN
15	(1) Design Pressure= StaticHead+ Water Hammer Head	203.84	
16	Design Head (m)	203.84	
17	Total Pressure (Ksc)	20.38	
18	Required Pressure Class of Pipe	DI, K9	

Based on economical & Water hammer analysis Provide 200 dia DI, K9 Pipe

Design Of Aerator					
Total demand		=	2600	Cum/Day	
No. of pumping hours		=	20	Hrs	
With 20 hrs pumping		=	130	Cum/hour	
Surface Area of Loading					
(0.015 to 0.045 m ² /m ³ /hr)		=	0.03	m²/m³/hr	
No. of steps (4 to 6)		=	4		
Rise of steps		=	0.30	m	
Tread of Step		=	0.30	m	
Area required for the Areator		=	Surface Loading x Raw water requirement		
1		=			
		=	3.9	Sqm	
Design of Central Shaft					
Innter Diamater of the Central Shaft		=	0.90	m	
Thickness of the Central shaft		=	0.15	m	
0.450 0.500 0					
Outer Diamater of the Central Shaft		=	0.9 + 2 x 0.15		
A (1) (0 1 - 1 - 0) (1		=	1.20	m	
Area of the Central Shaft		=	(3.142 x 1.2 x	,	
Total Curfore Area required		=	1.13	Sqm	
Total Surface Area required		=	5.03	Sqm	
Diameter of the Bottom Step		=	3.00	m	
Therefore Area Provided		=	(3.142 x 3 x 3) / 4		
		=	7.07	>5.030	
			Hence Safe		
Design of Out flow channel					
Discharge		=	130	Cum/hour	
		=	0.04	Cum/sec	
Area of the Channel					
Velocity in the Cnannel		=	0.60	m/sec	
Assumed depth of flow in Channel		=	0.20	m	
Width of the channel		=	0.04 / (0.6 x (0.2)	
		=	0.33	m	
	Say		0.40	m	
Total Depth of Channel		=	0.2 + 0.30m F	0.2 + 0.30m Free Board	
•		=	0.50	m	

Proposed Section of the Channel

 $= 0.40 \text{ m} \times 0.50 \text{ m}$

G. Ellenjath

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DESIGN OF FLASHMIXER

Design Flow (from Mass balance)		=	2.6	mld
Number of units		=	1	nos.
Design Flow in each unit		=	130	m³/hr
	= 130 / 3600	=	0.04	m³/sec
Detention period		=	30	secs
Volume of flash mixer chamber required	0.04 x 30	=	1.2	m ³
Side water depth provided		=	1.8	m
Freeboard		=	0.5	m
Area of chamber required	1.2 / 1.8	=	0.67	m^2
Inner Diameter of Flash Mixer		=	0.92	m
Say		=	1.00	m
Ratio of depth to side	1.8 / 1	=	1.800	
Outlet pipes to Clariflocculators - dia			200	mm
Velocity for normal flow				
$0.04 / (pi \times 0.25 \times (200/1000)^2)$			0.57	m/sec
Power requirement considered		=	2	watt/cum/hr
Efficiency factor considered		=	0.6	
Motor power required		=	0.58	HP
		Say	1.00	HP

Prellanjath

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DESIGN OF CLARIFLOCCULATOR

PLANT PARAMETERS		Intown	liata	11141
CAPACITY OF WTP = OPERATING HOURS =		<u>Intermed</u> 2.50 20		<u>Ultimate</u> 2.60 ML 20 Hours
DISCHARGE				
PER HOUR PER MINUTE PER SECOND			Cu.M Cu.M Cu.M	130.00 Cu.M 2.167 Cu.M 0.036 Cu.M
1. FLOCCULATOR				
SIDE WATER DEPTH = DETENTION TIME = PADDLE AREA = PADDLE REVOLUTION = VELOCITY GRADIENT = POWER CONSUMPTION =	2500 30 MINU 10 1 20 0.75	TO ITES TO TO TO TO	4000 25 5 75 2	MM PERCENT OFTANK AREA REVOLUTION PER MINUTE SEC KWH / MLD
TOTAL VOLUME OF FLOCCULATOR SIDE WATER DEPTH = AREA OF FLOCCULATOR REQUIRE DIA. OF INLET CHAMBER = THICKNESS OF INLET CHAMBER = TOTAL DIA. OF INLET CHAMBER = AREA OF INLET CHAMBER = TOTAL AREA REQUIRED = DIA. OF FLOCCULATOR REQUIRED DIA. OF FLOCCULATOR PROVIDED	D =	3 21.67 750 150 1050 0.87	Sq.M Sq.M MM	DETENTION TIME X DISCHARGE ASSUMED PARAMETER VOLUME/DEPTH FROM AREA
POWER REQUIREMENTS				
C/S AREA OF FLOCCULATOR = GRADIENT VALUE = G = MU = POWER REQUIRED = MU x G^2 x VO POWER SPENT/UNIT VOLUME = MOTOR EFFICIENCY FACTOR = POWER OF MOTOR REQUIRED = PROVIDE 1.50 HP MOTOR FOR PAE PADDLE REQUIREMENTS		40 0.0009 93.6 1.44 0.75 0.17	WATTS WATTS	RANGE: 0.75 TO 2 WATTS/Cu.M/Hr
VELOCITY AT TIP OF BLADE = VELOCITY OF WATER AT BLADE TI Cd = 1.8	P=		MPS MPS	0.25 x VELOCITY OF BLADE TIP
GAMMA = 1000 RELATIVE VELOCITY OF BLADE = AREA OF PADDLES REQUIRED = PADDLE AREA / FLOCCULATOR AI PADDLE AREA PROVIDED AS % OF PADDLE AREA ADOPTED = PADDLE REVOLUTION = VERTICAL EDGE OF BLADE =		3.85 29.52 OF FLOCO 3.26	MPS Sq.M PERCENT CULATOR = Sq.M RPM MM	

2. CLARIFIER

DETENTION TIME =	2	TO	2.5	HOURS	
SIDE WATER DEPTH =	2.5	TO	4	М	
SURFACE LOADING =	30	TO	40	Cu.M/D/	AY/M
WEIR LOADING =			300	Cu.M/D/	AY/M
BOTTOM SLOPE =	1	IN	12		
SCRAPING SYSTEM=	30	TO	40	MIN / RE	EVOLUTION
SHAPE =	CIRCULAR				
VOLUME OF TANK =			20	60 Cu.M	DISCHARGE X DETENTION TIME
VOLUME OF TANK WITH 10 %	OVERLOADING	G=	2	86 Cu.M	
SIDE WATER DEPTH =			32	50 MM	
SIDE WATER DEPTH ADOPTE	ED =		330	00 MM	
SURFACE AREA REQUIRED =			86.6	67 Sq.M	VOLUME / SIDE WATER DEPTH
AREA OF FLOCCULATOR WIT		BER =	22.	53 Sq.M	
AREA OF FLOCCULATOR +CLARIFIER =			109.	20 Sq.M	
COMBINED DIA, OF FLOCCULATOR+CLARIFIER=			1179	91 MM	
DIA. ADOPTED =			1180	00 MM	
COMB. AREA. OF FLOC.+CLAR		ED =	108.74	64 Sq.M	
AREA OF CLARIFIER PROVIDE	ED =		86.2	21 Sq.M	

SURFACE LOADING

SURFACE LOADING / HOUR= SURFACE LOADING / DAY =

1.45 Cu.M /Sq.M

34.80 Cu.M/Sq.M < 40 Cu.M / Sq. M

M/SEC

M

WEIR LOADING

WEIR LENGTH =

37.08 M

WEIR LOADING =

 $80.92~\text{Cu.M}\,/\,\text{M}\,/\text{DAY} <~300~\text{Cu.M}\,/\,\text{M}\,/\,\text{DAY}$

DESIGN OF LAUNDER

VELOCITY OF FLOW = 0.4 M / SEC
DEPTH OF LAUNDER = 500 MM
WIDTH OF LAUNDER = 750 MM
PERIMETER OF LAUNDER = P = 1750 MM
AREA OF LAUNDER = A = 375000 Sq.MM

HYDRAULIC RADIUS = 214.

214.29 MM = 0.21

16.97 M

N-VALUE IN MANNINGS FORMULA =

0.013

SLOPE REQUIRED =

0.00021 SLOPE 1 IN

4840.657573 (NEGLIGEBLE)

OPENING FROM FLOCCULATOR TO CLARIFIER

VELOCITY OF FLOW = 1 CM/SEC 0.01 M/SEC

PERIMETER OF FLOCCULATOR WALL =

CONSIDER 50 % OPENINGS

LENGTH OF OPENINGS = 8.48 M

AREA OF OPENING REQUIRED = 3.47 Sq.M

DEPTH OF OPENING = 409 MM

PROVIDE 1000 MM OPENING FOR 50 % OF PERIPHERAL LENGTH

SLUDGE PIPE

SLUDGE VOLUME = 2.5 Cu.M / MLD

VOLUME OF SLUDGE = 6.25 Cu.M

DESLUDGING PERIOD = 10 HOURS

SLUDGE VOLUME / PERIOD = 2.604167 Cu.M

SLUDING DURATION = 10 MINUTES

DISCHARGE = 0.00434 Cu.M / SEC

VELOCITY OF FLOW = 1.2 MPS

AREA OF PIPE REQUIRED = 0.003617

DIA, OF SLUDGE PIPE REQUIRED = 68 MM

PROVIDED SIZE OF DI PIPE FOR DESLUDGING = 100 MM

ನಹಾಯಕ ಕಾರ್ಯವಾಲಕ ಇಂಜ ುಬರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ

ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

Design of Rapid Sand Filter

1	Daily demand	:	2600000	Ltrs /day
			or 2600.00	Cum
2	Period of Operation of Filters	:	20	Hrs
3	Rate of Filteration	:	5.00	cum/Hr/sqm
4	Area of Filterbed required	:	26	Sqm
5	No. of Filter Units required	:	3	Nos
6	No. of Units proposed for Maintenance	:	1	No.
7	Total No. of Units Proposed	:	4	Nos
8	Filter Sand Depth	:	0.60	m
9	Effective size of sand	:	0.15	mm
10	Uniformity coefficient	:	<3	m
11	Height of Underdrain including gravel layer	•	1.20	m
12	Height of Supernatant	:	1.00	m
	Proposed Dimensions of Rapid Sand Filters			
	Length		3.30	m
	Width		2.70	m
	Free board		0.30	m
	Over all depth including free board	:	3.10	m

C. ellanjak

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ವೆನ್ನಿ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

Design of Back Wash Tank

1	Rate of Back wash	:	600	Ltrs/m/sqm
2	Duration of Back wash	:	10	mins
3	Area of Filter bed (One component	:	8.91	Sqm
4	Qty of water to wash one compartment only at a time	:	53460.00	Ltrs
5	No of beds provided	:	3	Nos
6	No of beds washed at a time	:	1	Nos
7	Qty of water to wash	:	53460	Ltrs
	Say	:	50000	Ltrs

Design of Wash water gutter

1	Qty of Wash water	:	53460	Ltrs
2	Duration of Back wash	:	10	mins
3	Outlet Discharge	:	89.1	Ltrs / sect
		or	0.089	cum / sect
4	Width of Gutter proposed	:	0.7	mins
5	Head loss HL = (Q1 / 1.376 x b) 2/3		0.091	mtr
6	Add for Free Board		0.1	mtr
7	Total Depth of gutter		0.191	mtr
		or	0.2	mtr

Gellanjak

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

Design of Wash Water Storage Sump

1	Capacity of tank Required		50.00	Cum
2	Assumed Depth of Tank	:	4.50	m
3	Below GL		3.50	
4	Surface area of tank	:	11.20	Sqm
5	Diameter of tank	:	3.78	m
			Say 4.00	m
6	Free Board	:	0.50	m
7	Total Depth of Storage Tank		5.00	m
8	GL		710.790	m
9	Bottom Level		707.29	m
10	Top level		712.29	m

a. ellawjadh

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜ ಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈ ್ಯ ಉಪ-ವಿಭಾಗ, ಶ್ರೀರಂಗಪಟ್ಟಣ

Design of Pure water Storage Sump

1	Prospective Population for 2051 Census	4	22794	souls
2	Daily demand	•	2600000	Ltrs /day
3	Hours of pumping		20.00	Hrs
	Discharge		130000.00	Ltrs /Hrs
			or 130.00	Cum /Hrs
4	Detention period		2.00	Hrs
5	Capacity of tank Required		260.00	Cum
6	Assumed Depth of Tank		5.00	m
8	Surface area of tank	:	52.00	Sqm
9	Diameter of tank	•	8.14	m
			Say 9.00	m
10	Free Board		0.50	m
11	Total Depth of Storage Tank		5.50	m
12	GL		708.220	m
13	Bottom Level		708.22	m
14	Top level		713.92	m

C. R. Manjant

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಬಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ Cost of Pipe / Rmt

Internal Dia

DESIGN OF RAW WATER RISING MAIN FROM Washwater Tank to Aerator

285.000 mm

75.700

SL NO	Description	90	110	125
1	Discharge in(LPS)	0.694	0.694	0.694
2	Pumping Hours(hrs)	20.00	20.00	20.00
3	Value of HWC for pipe	145	145	145
4	Length of rising main,(m)	100	100	100
5	Designed length of rising main,(m)	110	110	110
6	Loss per 1000m length,(m)	0.4318	0.1610	0.0861
7	Total friction loss,(m) & 10%Losess for Turns,Bends	0.0475	0.0177	0.0095
8	Delivery Head,(m)(pump level to FSL)	20.8800	20.8800	20.8800
9	Suction Head,(m)	3.5000	3.5000	3.5000
10	Residual Head,(m)	3.0000	3.0000	3.0000
11	Total Head,(m)	27.4275	27.3977	27.3895
12	BHP (70% EFFICIENCY)	0.3626	0.3622	0.3621
13	KW Required	0.2705	0.2702	0.2701
14	Cost of pumping machinery at Rs. 4000 per BHP	1450.26	1448.69	1448.25
15	Total Energy charges per year = (0.746 x 20 x 365 x hp x Energy Charges)	8885.07	8875.41	8872.75
16	M&R Depreciation Charges(at 7.5%of item14)	108.77	108.65	108.62
17	Total O&M Charges	8993.84	8984.07	8981.37
18	Capitalised value of O&M Charges (6.686*O&M)	60132.78	60067.46	60049.41
19	Cost of pipe Rs/per m	285.00	400.00	501.00
20	Total cost of pipes	31350.00	44000.00	55110.00
21	Grand total of capitalised cost for 10 years	92933.05	105516.15	116607.66

From the table it is seen that the most economical size of rising main is 90 mm dia

WATER HAMMER DESIGN FOR RISING MAIN

SL NO	DESCRIPTION	90	110	125
1	Dia(mm)(inner dia)	75.70	92.70	105.40
2	Class of pipe	HDPE, PEIOO, PNIO	HDPE, PEIDO, PNIO	HDPE, PEIDO, PNID
3	Length(m)	100	100	100
4	Discharge(Cumecs)	0.0007	0.0007	0.0007
5	RL at Ground Level	709.22	709.22	709.22
6	Fullsupply level	730.10	730.10	730.10
7	Ground level - FSL	20.88	20.88	20.88
8	Thickness(mm)	7.15	8.65	9.80
9	Area of pipe(sqm)	0.0045	0.0067	0.0087
10	Velocity(m/s)	0.15	0.10	0.08
11	Bulk Modulus of Water	2.07E+08	2.07E+08	2.07E+08
12	Youngs Modulus of pipe	9.00E+07	9.00E+07	9.00E+07
13	Pressure wave velocity(m/s)	283.0199	281.3736	280.8912
14	Water hammer pressure(m)	4.4482	2.9490	2.2773
	WATER HAMMER DESIGN	FOR RISING MA	IN	
15	(1) Design Pressure= StaticHead+ Water Hammer Head	28.33	26.83	26.16
16	(2) Design Pressure = 2 * Static Head	41.76	41.76	41.76
17	Design Head (m)	41.76	41.76	41.76
18	Total Pressure (Ksc)	4.18	4.18	4.18
19	Required Pressure Class of Pipe	HDPE, PEIOO, PNIO	HDPE, PE100, PN10	HDPE, PE100, PN10

Based on economical & Water hammer analysis Provide 90 dia HDPE, PE100, PN10 Pipe

DESIGN OF PUMPING MACHINARY FROM WASHWATER TANK TO AERATOR

			-		
	Static Head				
1	R.L. of Suction Level	=	705.720		
2	Lowest RL in LS	=	709.220		
3	Full Supply Level	=	730.100		
4	R.L. at Pumpset	=	709.670		
5	Total Static Head = (I.No.3 - I.No.4)	=	24.380	m	
	Frictional Losses				
6	Length of Rising Main (L)	=	100.00		
7	Designed Length	=	110.00		
8	Dia of Pipe	=	90	6kg/sqcm	
9	Frictional Losses / 1000 m (f)	=	0.432	okg/sqcm	
10	Total Frictional Losses	_	0.432		
10	(110 / 1000) x 0.432		0.048		9
	Head Loss				
11	Static Head		24.380	m	
12	Frictional Losses		0.048	m	
13	Residual head		3.000	m	
	Total Frictional Head Loss		27.428	_ _m	
	Pumping Machinary				
	Yield from Source	=	0.694	LPS	
	Held Holli Source	0. 50	0.054	LFO	
	Horse Power of Pumping machinary	=	(Q x H) / (75 x	(n)	
	Where Q = Discharge in LPS				
	H = Total Head				
	n = Efficiency of pump	=	60%		
		=		0.694 x 27.428	
		-		75 x 60%	
				75 X 60%	
		=	0.4	2	
	Add Cushion as per CPHEEO Manual				
	1.50 x 0.42 =		0.6	3	
			F 0	A LID	

5.00 HP

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜ್ ಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

G. e. llaujath

Total Demand Considering losses	50000
Safe Yield of the Source (lph)	6250
Number of Hours of Pumping	8.00
Safe Yield of the Source (lps)	1.736
Value of HWC for pipe	145.00
Initial Approximation of Pipe	90
Type & Class of pipe	HDPE, PE100, PN10
Length of rising main,(m)	100 m
RL of starting point	708.220 m
RL of suction Level	704.720
RL of Delevery Head	721.82 m
Energy Charges	4.50 per kv
Proposed dia of Pipe	90.00 mm
Type & Class of pipe	HDPE, PE100, PN10
Frictional Losses	2.359
Cost of Pipe / Rmt	285.000 mm
Internal Dia	75.700

Capacity of Tank 50 KL

DESIGN OF PURE WATER RISING MAIN FROM PW SUMP TO Back wash tank

119154.43

SL NO	Description	90	
1	Discharge in(LPS)	1.736	
2	Pumping Hours(hrs)	8.00	
3	Value of HWC for pipe	145	
4	Length of rising main,(m)	100	
5	Designed length of rising main,(m)	110	
6	. Loss per 1000m length,(m)	2.3593	
7	Total friction loss,(m) & 10%Losess for Turns,Bends	0.2595	
8	Delivery Head,(m)(pump level to FSL)	17.1000	
9	Suction Head,(m)	3.5000	
10	Residual Head,(m)	3.0000	
11	Total Head,(m)	23.8595	
12	BHP (45% EFFICIENCY)	1.2273	
13	KW Required	0.9155	
14	Cost of pumping machinery at Rs. 4000 per BHP	4909.05	
15	Total Energy charges per year = (0.746 x 8 x 365 x hp x Energy Charges)	12030.17	
16	M&R Depreciation Charges(at 7.5%of item14)	368.18	
17	Total O&M Charges	12398.35	
18	Capitalised value of O&M Charges (6.686*O&M)	82895.38	
19	Cost of pipe Rs/per m	285.00	
20	Total cost of pipes	31350.00	
21	Grand total of capitalised cost for 10 years	119154.43	

From the table it is seen that the most economical size of rising main is 90 mm dia

WATER HAMMER DESIGN FOR RISING MAIN

SL NO	DESCRIPTION	90		
1	Dia(mm)(inner dia)	75.70		
2	Class of pipe	HDPE, PEIDD, PNIO		
3	Length(m)	100		
4	Discharge(Cumecs)	0.0017		
5	RL at Ground Level	704.72		
6	Fullsupply level	721.82		
7	Ground level - FSL	17.1		
8	Thickness(mm)	7.15		
9	Area of pipe(sqm)	0.0045		
10	Velocity(m/s)	0.39		
11	Bulk Modulus of Water	2.07E+08		
12	Youngs Modulus of pipe	9.00E+07		
13	Pressure wave velocity(m/s)	283.0199		
14	Water hammer pressure(m)	11.1268		
	WATER HAMMER DESIGN	FOR RISING MA	IN	
15	(1) Design Pressure= StaticHead+ Water Hammer Head	31.23		
16	(2) Design Pressure = 2 * Static Head	34.20		
17	Design Head (m)	34.20		
18	Total Pressure (Ksc)	3.42		
19	Required Pressure Class of Pipe	HDPE, PE100, PN10		

Based on economical & Water hammer analysis Provide 90 dia HDPE, PE100, PN10 Pipe

le allanjant

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ಸೈಟ್ಟ್ ್ಯ ಉಪ-ವಿಭಾಗ, ಶ್ರೀರಂಗಪಟ್ಟಣ

DESIGN OF PUMPING MACHINARY FROM PW SUMP TO BACK WASH TANK

	Static Head				
1	R.L. of Suction Level		=	704.720	
2	Lowest RL in LS		=	704.720	
3	Full Supply Level		=	721.820	
4	R.L. at Pumpset		=	708.670	
5	Total Static Head = (I.No.3 - I.No.4)		=	17.100	m
	-				
	Frictional Losses				
6	Length of Rising Main (L)		=	100.00	
7	Designed Length		=	110.00	
8	Dia of Pipe		=	90	6kg/sqcm
9	Frictional Losses / 1000 m (f)		=	2.359	
10	Total Frictional Losses				
	(110 / 1000) x 2.359			0.259	
	Head Loss				
11	Static Head			17.100	m
12	Frictional Losses			0.259	m
13	Residual head			3.000	m
	Total Fric	tional Head Loss		20.359	_ m
					_
	Pumping Machinary				
	Yield from Source		=	1.736	LPS
	Horse Power of Pumping machinary		=	(Q x H) / (75 x	, u)
	Where Q = Discharge in LPS			(4 × 11) / (10 ×	(1)
	H = Total Head				
	n = Efficiency of pump		=	60%	
	•		=		1.736 x 20.359
					75 x 60%
				. –	_
	Add Cushion as per CPHEEO Manual		=	0.7	9
	Add Cushion as per CriceO Manual	1.50 x 0.79 =		1.1	q
		1.00 x 0.70 -		1.1	•

5.00 HP

a. allaujath.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯ್ಟ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈಕ್ಕಿ -- , ಉಪ-ವಿಭಾಗ, ಶ್ರೀರಂಗಪಟ್ಟಣ

Design of MBT(GLSR)

5	Capacity of tank Required		250.00	Cum
6	Assumed Depth of Tank	8.4	5.00	m
7	Surface area of tank	:	50.00	Sqm
8	Diameter of tank	:	7.99	m
			Say 8.00	m
	Free Board	:	0.50	m
	Total Depth of Storage Tank		5.50	m
8	GL		825.000	m
	Bottom Level		821.50	m
	Top level		827.20	m

a. e. llaujeat

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿಸಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ವಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪದ್ವಣ

Design of ZBT(GLSR)

5	Capacity of tank Required		150.00	Cum
6	Assumed Depth of Tank	:	5.00	m
7	Surface area of tank	;	30.00	Sqm
8	Diameter of tank	:	6.19	m
			Say 7.00	m
	Free Board	n .	0.50	m
	Total Depth of Storage Tank		5.50	m
8	GL		752.250	m
	Bottom Level		748.75	m
	Top level	-	754.45	m

Cr.e. llaujuak

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜೀಯು ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈಮ್ ಲ್ಯ ಉಪ-ವಿಭಾಗ, ಶ್ರೀರಂಗಪಟ್ಟಣ

WATER BALANCE TABLE OF VADIYANDAHALLI MBT (24 Hr out flow)

Population Served (2051)			15220	
Daily Demand			1522000	Ltrs
Inflow				
Hours of Pumping			20	Hrs
Rate of Pumping			76100 l	LPH
Out flow				
Hours of Pumping			24	Hrs
Rate of Pumping			63417 l	LPH
Assumed dead storage	152200	LTRS		

* * *	me our)	Opening balance	In Flow to	Cumulative	Out flow	Capacity of Tank
From	То	Dalatice	I alik	storage		250 KL
12:00 AM	1:00 AM	152200	76100	228300	63417	164883
1:00 AM	2:00 AM	164883	76100	240983	63417	177567
2:00 AM	3:00 AM	177567	76100	253667	63417	190250
3:00 AM	4:00 AM	190250	76100	266350	63417	202933
4:00 AM	5:00 AM	202933	76100	279033	63417	215617
5:00 AM	6:00 AM	215617	76100	291717	63417	228300
6:00 AM	7:00 AM	228300		228300	63417	164883
7:00 AM	8:00 AM	164883	90	164883	63417	101467
8:00 AM	9:00 AM	101467	76100	177567	63417	114150
9:00 AM	10:00 AM	114150	76100	190250	63417	126833
10:00 AM	11:00 AM	126833	76100	202933	63417	139517
11:00 AM	12:00 PM	139517	76100	215617	63417	152200
12:00 PM	1:00 PM	152200	76100	228300	63417	164883
1:00 PM	2:00 PM	164883	76100	240983	63417	177567
2:00 PM	3:00 PM	177567	76100	253667	63417	190250
3:00 PM	4:00 PM	190250	76100	266350	63417	202933
4:00 PM	5:00 PM	202933		202933	63417	139517
5:00 PM	6:00 PM	139517		139517	63417	76100
6:00 PM	7:00 PM	76100	76100	152200	63417	88783
7:00 PM	8:00 PM	88783	76100	164883	63417	101467
8:00 PM	9:00 PM	101467	76100	177567	63417	114150
9:00 PM	10:00 PM	114150	76100	190250	63417	126833
10:00 PM	11:00 PM	126833	76100	202933	63417	139517
11:00 PM	12:00 AM	139517	76100	215617	63417	152200
			1522000		1522000	

WATER BALANCE TABLE OF VADIYANDAHALLI ZBT (24 Hr out flow)

Population Served (2050)			7574	
Daily Demand			758000	Ltrs
Inflow				
Hours of Pumping			20	Hrs
Rate of Pumping			37900	LPH
Out flow				
Hours of Pumping			24	Hrs
Rate of Pumping			31583	LPH
Assumed dead storage	75800	ITRS		

	me our)	Opening	In Flow to	Cumulative	Out flow	Capacity of Tank
From	То	balance	Tank	storage		150 KL
12:00 AM	1:00 AM	75800	37900	113700	31583	82117
1:00 AM	2:00 AM	82117	37900	120017	31583	88433
_2:00 AM	3:00 AM	88433	37900	126333	31583	94750
3:00 AM	4:00 AM	94750	37900	132650	31583	101067
4:00 AM	5:00 AM	101067	37900	138967	31583	107383
5:00 AM	6:00 AM	107383	37900	145283	31583	113700
6:00 AM	7:00 AM	113700		113700	31583	82117
7:00 AM	8:00 AM	82117		82117	31583	50533
8:00 AM	9:00 AM	50533	37900	88433	31583	56850
9:00 AM	10:00 AM	56850	37900	94750	31583	63167
10:00 AM	11:00 AM	63167	37900	101067	31583	69483
11:00 AM	12:00 PM	69483	37900	107383	31583	75800
12:00 PM	1:00 PM	75800	37900	113700	31583	82117
1:00 PM	2:00 PM	82117	37900	120017	31583	88433
2:00 PM	3:00 PM	88433		88433	31583	56850
3:00 PM	4:00 PM	56850		56850	31583	25267
4:00 PM	5:00 PM	25267	37900	63167	31583	31583
5:00 PM	6:00 PM	31583	37900	69483	31583	37900
6:00 PM	7:00 PM	37900	37900	75800	31583	44217
7:00 PM	8:00 PM	44217	37900	82117	31583	50533
8:00 PM	9:00 PM	50533	37900	88433	31583	56850
9:00 PM	10:00 PM	56850	37900	94750	31583	63167
10:00 PM	11:00 PM	63167	37900	101067	31583	69483
11:00 PM	12:00 AM	69483	37900	107383	31583	75800
			758000		758000	

TITLE: Gravity Main Design

		Node	Len	gth		Require	d Flow		Pre	pposed Pipe D	ia	Velocity	Hazens	Frictional	Frictional	HMG at Previous	HMG at	DHRL Required @	Residual	MBT	Lowest GL RL in	Working Pressure duly	Class of Pipe or Working	Type of	
1	From	То	Actual	Designed	Population served by the pipe	Peak Factor	1	0.6	Ext Dia	Wall Thickness	Internal Dia	of flow in pipe	William Constant	Slope (s)	Loss in Line	Node	Next Node	OHT / GLSR	Pressure	Outlet RL	L-S	considering Water Hammer	l	Pipe	Remarks
	110	.,	(m)	(m)	the pipe	LPH	CUMECS		(mm)	(mm)	(mm)	(m/sec)		(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	23	24	25
1	2	3	4	5	6	7	8		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
					•	1	 1		οι	TLET-1 [M							025.04			825.30	747.80	77.50	PN8	HDPE	
1	мвт	JN-C1	183	201.30	7433	30971	0.0086	140	180	11.45	157.1	0.44	145	0.0013	0.26	825.30	825.04				-	157.21	PN16	HDPE	
2	JN-C1	JN-C2	9434	10377.40	7433	30971	0.0086	140	180	22.6	134.8	0.60	145	0.0028	28.57	825.04	796.47			825.30	667.83		PN10	HDPE	
3	JN-C2	JN-C3	3786	4164.60	2115	8813	0.0024	75	90	7.15	75.7	0.54	145	0.0045	18.58	796.47	777.89			825.30	713.81	82.66		HDPE	Provide PRV and
4	JN-C3	Hampapura	15	16.50	1045	4354	0.0012	50	75	3.8	67.4	0.34	145	0.0021	0.04	777.89	777.85	741.60	36.25	825.30	726.75	51.14	PN6		Flow Meter Provide PRV and
5	JN-C3	Huralikyathanahalli	2648	2912.80	1070	4458	0.0012	63	75	4.85	65.3	0.37	145	0.0026	7.56	777.89	770.33	741.00	29.33	825.30	702.04	75.85	PN8	HDPE	Flow Meter
6	JN-C2	JN-C4	3730	4103.00	5318	22158	0.0062	125	140	13.45	113.1	0.61	145	0.0035	14.28	796.47	782.18			825.30	686.13	110.34	PN12.5	HDPE	
7	JN-C4	JN-C5	200	220.00	1348	5617	0.0016	63	75	4.85	65.3	0.47	145	0.0040	0.88	782.18	781.31			825.30	703.10	79.08	PN8	HDPE	Provide PRV and
8	JN-C5	Chikkanakanahalli OHT1	13	14.30	674	2808	0.0008	40	75	4.85	65.3	0.23	145	0.0011	0.02	781.31	781.29	727.51	53.78	825.30	712.64	68.67	PN8	HDPE	Flow Meter Provide PRV and
9	JN-C5	Chikkanakanahalli OHT2	51	56.10	674	2808	0.0008	40	75	4.85	65.3	0.23	145	0.0011	0.06	781.31	781.25	728.07	53.18	825.30	712.64	68.67	PN8	HDPE	Flow Meter
0	IN-C4	JN-C6	510	561.00	3970	16542	0.0046	110	110	8.65	92.7	0.68	145	0.0053	2.99	782.18	779.19			825.30	701.92	80.26	PN10	HDPE	
11	IN-C6	Chikkanakanahalli OHT3	16	17.60	338	1408	0.0004	40	75	4.85	65.3	0.12	145	0.0003	0.01	779.19	779.18	731.80	47.38	825.30	717.53	61.66	PN8	HDPE	Provide PRV and Flow Meter
12	IN-C6	IN-C7	941	1035.10	3632	15133	0.0042	110	110	8.65	92.7	0.62	145	0.0045	4.69	779.19	774.50			825.30	696.52	82.67	PN10	HDPE	
13	JN-C7	Sugganahalli	85	93.50	779	3246	0.0009	50	75	4.85	65.3	0.27	145	0.0014	0.13	774.50	774.37	715.61	58.76	825.30	701.35	73.15	PN8	HDPE	Provide PRV and Flow Meter
			1616	1777.60	2853	11888	0.0033	90	90	5.8	78.4	0.68	145	0.0065	11.64	774.50	762.86			825.30	703.08	71.42	PN8	HDPE	
14	JN-C7	JN-C8		529.10	1711	7129	0.0020	75	75	3.8	67.4	0.56	145	0.0053	2.81	762.86	760.06	741.18	18.88	825.30	726.02	36.84	PN6	HDPE	Provide PRV and Flow Meter
15	JN-C8	Bonthagahalli	481			4758	0.0013	63	75	3.8	67.4	0.37	145	0.0025	0.62	762.86	762.25	750.52	11.73	825.30	725.96	36.90	PN6	HDPE	Provide PRV and Flow Meter
16	JN-C8	Kokkarehundi	224	246.40	1142	4/50	0.0013	03	/3	3.0	07.4	0.57	113	0.0025											11000 71000
											-														
										OUTLET-) [7RT T(MAHAD	FVADIID/	A & OTHE	R 5 VILLA	\GES]									
_				T	T	7 25000	0.0073	125	160	12.5	135	0.50	145	0.0020	9.87	752.55	742.68			752.55	667.80	84.75	PN10	HDPE	
1	ZBT	JN-M1	4544	4998.51	7574	25989	0.0072	125	160	1	65.3	0.03	145	0.0000	0.06	742.68	_	705.58	37.03	752.55	673.58	69.10	PN8	HDPE	Provide PRV an
2	JN-M1	Krishnapura	3252	3577.20	88	302	0.0001	40	75	4.85	-	-	-	-	+	742.68	740.54	7,00,00		752.55	-		PN8	HDPE	Flow Meter
3	JN-M1	JN-M2	617	678.70	7486	25687	0.0071	125	140	8.95	122.1	0.61	145	0.0032	2.14	-				752.55	- 6		PN6	HDPE	
4	JN-M2	JN-M3	19	20.90	612	2100	0.0006	40	75	3.8	67.4	0.16	145	0.0006	0.01	740.54	740.53	704.00	26.42	752.55	+		PN6	HDPE	Provide PRV an
5	JN-M3	Mahadevapura OHT1	7	7.70	306	1050	0.0003	40	75	3.8	67.4	0.08	145	0.0002	0.00	740.53	740.52	704.09	36.43			-	PN6	HDPE	Flow Meter Provide PRV an
6	JN-M3	Mahadevapura OHT2	22	24.20	306	1050	0.0003	40	75	3.8	67.4	0.08	145	0.0002	0.00	740.53	740.52	704.55	35.97	752.55				HDPE	Flow Meter
7	JN-M2	JN-M4	721	793.10	6874	23587	0.0066	125	125	6.1	112.8	0.66	145	0.0040	3.14	740.54	737.40	-		752.55			PN6	_	Provide PRV an
8	JN-M4	Mahadevapura OHT3	223	245.30	1226	4207	0.0012	50	75	3.8	67.4	0.33	145	0.0020	0.49	737.40	736.91	724.06	12.85	752.55			PN6	HDPE	Flow Meter
9	JN-M4	JN-M5	129	141.90	5648	19380	0.0054	110	110	5.35	99.3	0.70	145	0.0051	0.73	737.40	736.67			752.55			PN6	HDPE	
10	JN-M5	JN-M6	3201	3521.10	4558	15640	0.0043	110	110	7.05	95.9	0.60	145	0.0041	14.36	736.67	722.31			752.55			PN8	HDPE	Provide PRV ar
11	JN-M6	Channahalli	562	618.20	1968	6753	0.0019	63	75	3.8	67.4	0.53	145	0.0048	2.97	722.31	719.34	689.45	29.89	752.55	666.05	56.26	PN6	HDPE	Flow Meter Provide PRV ar
12	JN-M6	Bidarahalli	1572	1729.20	2590	8887	0.0025	75	75	3.8	67.4	0.69	145	0.0080	13.80	722.31	708.51	694.79	13.72	752.55	664.69	57.62	PN6	HDPE	Flow Meter
13	JN-M5	JN-M7	2286	2514.60	1090	3740	0.0010	50	75	4.85	65.3	0.31	145	0.0019	4.71	736.67	731.96			752.55	675.86	60.81	PN8	HDPE	Provide PRV ar
14	JN-M7	Taripura	241	265.10	809	2776	0.0008	40	75	3.8	67.4	0.22	145	0.0009	0.25	731.96	731.71	721.64	10.07	752.55	699.58	32.38	PN6	HDPE	Flow Meter
15	JN-M7	Kemmannupura	2650	2915.00	281	964	0.0003	40	75	3.8	67.4	0.08	145	0.0001	0.38	731.96	731.58	719.69	11.89	752.55	697.55	34.41	PN6	HDPE	Provide PRV ar Flow Meter
	,																								

TITLE: Gravity Main Design

		Node	Le	ngth		Require	d Flow		Pre	oposed Pipe D	ia	Velocity			Frictional	HMG at	HMG at	DHRL	Residual	мвт	Lowest GL	11000010001			
SI No			Actual	Designed		Peak Factor	1	0.6	Ext Dia	Wall Thickness	Internal Dia	of flow in pipe	Hazens William Constant	Slope (s)	Loss in Line	Previous Node	Next Node	Required @ OHT / GLSR	Pressure	Outlet RL	RL in L-S	considering Water Hammer		Type of Pipe	Remarks
5	From	То	(m)	(m)	the pipe	LPH	CUMECS		(mm)	(mm)	(mm)	(m/sec)	Constant	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	KSC		
1	2	3	4	5	6	7	8		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
s										OUTLET-3	[МВТ ТО	K-SHET	TYHALL	I & OTHER	6 VILLA	GES]									
1 1	мвт	JN-K1	14329	15761.74	7787	26720	0.0074	125	180	22.6	134.8	0.52	145	0.0021	33.01	825.30	792.29			825.30	670.01	155.29	PN16	HDPE	
2	JN-K1	K Shettyhalli OHT1	161	177.10	958	3287	0.0009	50	75	6	63	0.29	145	0.0018	0.31	792.29	791.98	714.71	77.27	825.30	698.99	93.30	PN10	HDPE	Provide PRV and Flow Meter
3	IN-K1	IN-K2	104	114.43	6829	23433	0.0065	125	125	9.8	105.4	0.75	145	0.0054	0.62	792.29	791.66			825.30	698.01	94.28	PN10	HDPE	
4	IN-K2	K Shettyhalli OHT2	32	34.81	1150	3946	0.0011	50	75	6	63	0.35	145	0.0025	0.09	791.66	791.58	712.22	79.36	825.30	697.99	93.67	PN10	HDPE	Provide PRV and Flow Meter
		•	162	177.74	5679	19487	0.0054	110	125	9.8	105.4	0.62	145	0.0039	0.69	791.66	790.98			825.30	698.00	93.66	PN10	HDPE	
5	JN-K2	JN-K3				5785	0.0016	63	75	6	63	0.52	145	0.0050	4.75	790.98	786.23			825.30	698.32	92.66	PN10	HDPE	
6	JN-K3	JN-K4	862	948.11	1686		ļ <u> </u>				65.3		145	0.0008	0.03	786.23	786.20	725.67	60.53	825.30	710.32	75.91	PN8	HDPE	Provide PRV and
7	JN-K4	Gowripura	32	34.86	690	2368	0.0007	40	75	4.85		0.20		-		786.23	785.19	729.15	56.04	825.30	708.73	77.50	PN8	HDPE	Flow Meter Provide PRV and
8	JN-K4	Garudana Ukkada	599	658.86	996	3418	0.0009	50	75	4.85	65.3	0.28	145	0.0016	1.04		ļ	/29.13	30.04	825.30	685.26	105.72	PN12.5	HDPE	Flow Meter
9	JN-K3	JN-K5	2333	2566.07	3993	13701	0.0038	90	110	10.6	88.8	0.61	145	0.0046	11.91	790.98	779.06			<u> </u>		-			Provide PRV and
10	JN-K5	M Shettyhalli OHT1	17	19.02	1009	3462	0.0010	50	75	4.85	65.3	0.29	145	0.0016	0.03	779.06	779.03	717.04	61.99	825.30	702.94	76.12	PN8	HDPE	Flow Meter
11	JN-K5	JN-K6	50	54.68	2984	10239	0.0028	90	90	5,8	78.4	0.59	145	0.0050	0.27	779.06	778.79			825.30	703.26	75.80	PN8	HDPE	Provide PRV and
12	JN-K6	M Shettyhalli OHT2	11	12.54	1210	4152	0.0012	50	75	4.85	65.3	0.34	145	0.0023	0.03	778.79	778.76	719.30	59.46	825.30	704.70	74.09	PN8	HDPE	Flow Meter
13	JN-K6	JN-K7	1252	1376.73	1774	6087	0.0017	63	75	4.85	65.3	0.50	145	0.0046	6.36	778.79	772.43			825.30	705.29	73.50	PN8	HDPE	Provide post
14	JN-K7	Sabbanakuppe	12	13.66	278	954	0.0003	40	75	3.8	67.4	0.07	145	0.0001	0.00	772.43	772.43	732.31	40.12	825.30	717.59	54.84	PN6	HDPE	Provide PRV and Flow Meter
15	JN-K7	JN-K8	945	1040.00	1496	5133	0.0014	63	75	4.85	65.3	0.43	145	0.0034	3.50	772.43	768.93			825.30	707.76	64.67	PN8	HDPE	
16	JN-K8	Mallegowdanakoppalu	270	297.05	212	727	0.0002	40	75	3.8	67.4	0.06	145	0.0001	0.02	768.93	768.91	739.57	29.34	825.30	719.45	49.48	PN6	HDPE	Provide PRV and Flow Meter
17	JN-K8	Chinnenahalli	1091	1199.57	1284	4406	0.0012	50	75	4.85	65.3	0.37	145	0.0025	3.04	768.93	765.88	727.77	38.11	825.30	705.38	63.55	PN8	HDPE	Provide PRV and Flow Meter
-	-									170.00			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												
			_																						
	l	<u> </u>						1		1	.1	.1	- 								(E)				

Callanja de

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲ**ಕ** ಇಂಹಿಂಯನ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈ^{ಮನಲ್ಲ} ಉಪ-ವಿಭಾಗ, ಶ್ರೀರಂಗಪಟ್ಟಣ

ANNEXURE - FORMAT - 1 ABSTRACT OF PROPOSALS

				N O	No. of	Population		Provisional Project Cost		Water Quality Parameters as per IMIS (As on 01/04/2016)	uality Parameters as (As on 01/04/2016)	meters /04/20	as per IMIS 6)	Habi	Details o ations a As on 0	Details of Coverage o Habitations as per I.M.I.S. As on 01/04/2016) 55	Details of Coverage of No. of tations as per I.M.I.S. As on 01/04/2016) 55 LPCD	o. of CD	Scheme
is S	District	Taluk	Name of Scheme	Habita	W.Q. Habi tations	W.Q. as per Habi 2011 tations	Source	in lakh excluding O&M	Per capita cost in Rs. Excluding O&M	As	Щ	8	Fe NO ₃ TDS / 0% to	TDS / 0% to 25% 50% 75% salinity 25% 50% 75% 100%	25% to 50%	50% to 75%	75% to 100%	100%	ded by Sriyuths
-	2	က	4	2	9	7	88	6	10	11	64.2	13	14 15	16	17	18	19	20	21
-	Mandya	Mandya Srirangapatna	Water Supply to Mahadevapura, Chikkanakanahalli, K. Sheetyhalli & Other 16 Villages	19	0	18720	Cauvery River Near Mahadev pura	2376.87	12202.00		0	2	12 0	0	7	6	-	9	
								Total Nur	Total Number of Habitations:	19									

Total Number of Quality affected Habitations & Number of Habitations below 50% coverage:

Percentage of Quality affected Habitations & Habitations below 50% coverage

68.42%

Number of quality affected habitations:

A. & Meninalk

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿಸಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ-ವಿಭಾಗ, ಶ್ರೀರಂಗಪಟ್ಟಣ FORMAT - 2 SALIENT FEATURES

	1 NAME OF THE SCHEME	Water Supply to Mahadevapura, Chikkanakanahalli, K. Sheetyhalli & Other 16 Villages
2	2 TALUK	Srirangapatna
<u>س</u>	3 DISTRICT	Mandya
4	NUMBER OF VILLAGES BENEFITED	19
5	5 W.Q. CONTAMINATED VILLAGES	0
9	POPULATION AS PER 2011	18720
_	7 TYPE OF CONTAMINATION	Flourid,iron & Nitrate.
∞	PROJECTED POPULATION 2021	19664
6	PROJECTED POPULATION 2051	22,794
10	PROPOSED SUPPLY LEVEL	85 LPCD
11	DETAILS OF SOURCE	Cauvery River Near Mahadevpura
12	TOTAL REQUIREMENTOF WATER (MLD)	2.6
13	13 PROPOSED SCHEME (Components)	Intake well, Jack Well, Raw water Rising main, Raw water Balancing Tank, Aerator, Flash Mixer, Clariflocculator, Rapid Sand Filter, Pure Water sump, Pure Water rising Main, Raw Water Pumping Machinery, Clear Water Pumping Machinery, Master Balancing Tank, Zonal Balancing Tank, Gravity Main.
14	14 WATER TREATMENT PLANT CAPACTY (MLD)	2.5
15	O & M COST FOR 5 YEARS INCLUDING ENERGY CHARGES	Rs.423.13 Lakhs
16	16 PROJECT COST	(a) Including 5 Yrs O&M Cost - Rs.2800 Lakhs (b) Excluding 5 Yrs O&M Cost - Rs.2376.87 Lakhs
17	PER CAPITA COST FOR 2019 POPULATION EXCLUDING O & M CHARGES	Rs.12202
18	PRODUCTION COST OF WATER PER K.L. AS PER 18 2017 POP	Rs.5.10

Water Supply to Mahadevapura, Chikkanakanahalli, K. Sheetyhalli & Other 16 Villages ABSTRACT ESTIMATE FORMAT - 3

DISTRIC Mandya

TALUK: Srirangapatha

ALUN:	TALOK: Srirangapama		-
SI.No.	Description	Amount (Rs. in lakhs)	
-	Head Works	66.01	
2	Raw Water Rising / Gravity Main & Pumping Machinery	215.14	
က	Water Treatment Plant - Capacity MLD	180.25	
4	Pure Water Rising / Gravity Main and Pumnping Machinery etc.	1028.46	
5	Master Balancing Tanks & ZBTs	30.91	
9	Chemical Rooms, Laboratory, Staff Quarters	15.49	
7	Express Feeder Line	386.92	
∞	O&M charges for 5 Years including Energy charges	423.13	
	Sub-Total	2346.31	
10	Add PMC Charges @ 3%	70.39	
11	Add Price variation Charges @ 15%	351.95	
	Miscellaneous and rounding charges	31.35	
	GRAND TOTAL	2800.00	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಸಹಾಯಕ ಕಾರ್ಯವಾಲಕ ಬತ್ತು ಸೈರ್ಮಲ್ಯ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ಸೈರ್ಮಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

FORMAT - 4

Water Supply to Mahadevapura, Chikkanakanahalli, K. Sheetyhalli & Other 16 Villages

		Remarks	14												
	Water Quality Parameters as per IMIS (As on 01/04/2016)	TDS / Salinity	13		•	•	•	•	-	•		•	ı	1	•
,	ter Quality Parameters as IMIS (As on 01/04/2016)	NO3	12	64.15	65.24	64.24	75	75	63.18	75		50	•	53.14	75
	ity Pal s on (Fe	11	,	•	•	•	-	1.9	-	•	•	2		•
	r Qua MIS (A	ட	10	ı	•	•		•	•		1	•	•	•	•
	Wate I	As	6	•		•	,	•			•		•		
	Population Coverage Category of the	Habitations as per entry made in I.M.I.S. Web site (As on 01/04/2016)55 LPCD	8	50% to 75%	50% to 75%	50% to 75%	50% to 75%	25% to 50%	50% to 75%	100%	50% to 75%	100%	100%	50% to 75%	25% to 50%
5	Existing Water Supply System	Borewells	7		1	25			2	10		1	E	2	
	Nater Sup	M.W.S.	9		T	10				7		I	τ		
8	Existing \	₩. %.	2		0	9				33		1			
	Population as	per 2011 IMIS (Total & SC/ST Population)	4	1510	664	1618	2129	71	858	1385	879	639	938	1406	229
		Name of Village/ Habitation	ю	Mahadevapura	Taripura	Channahalli	Bidarahalli	Krishnapura	Hampapura	Chikkankanahalli	Huralikyathanahalli	Sugganahalli	Kokkarehundi	Bonthagahalli	Kemmannupura
		g. G.	2			Mahadevpura		ē	Melapura			Chikkankanah	alli		
		S. S. S.	-	-	2	8	4	5	9	7	8	6	10	7	12

							Population	Wate	Consider	5 5	ameters	Water Onality Parameters as ner	
			Population as		Water Su	Existing Water Supply System	Coverage Category of the		MIS (A	s on 0	IMIS (As on 01/04/2016)	16)	
Si. No.	G.P.	Name of Village/ Habitation	per 2011 IMIS (Total & SC/ST Population)	P.W.S.	M.W.S.	Borewells	Habitations as per entry made in I.M.I.S. Web site (As on 01/04/2016)55 LPCD	As	ĹL	E E	NO ₃	TDS / Salinity	Remarks
13		Garudana Ukkada	818	2	1	1	100%		,		,	,	
4	к ѕнеттінаш	Gowripura	999	ī	•	2	50% to 75%				46.23		
15	R	K. Shettyhalli	1733	2	4	5	100%		,		09		
16		Chinnenahalli	1054	1	1	•	75% to 100%		,	,	,	,	
17	SABBANAKUP PE	M. Shettyhalli	1824	,		1	50% to 75%		,		,	,	
18	:	Mallegowdanakoppalu	172	1	9	t	50% to 75%		-	,			
19		Sabbanakuppe	227	9	- V	39	100%						

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ESTIMATE FOR OPERATION & MAINTENANCE OF MULTI VILLAGE WATER SUPPLY SCHEME TO MAHADEVAPURA, CHIKKANAKANAHALLI, K SHETTYHALLI AND OTHER 16 VILLAGES OF MANDYA DISTRICT

(I) Abstract O & M Budget (Including Energy Charges)

()		3 (3, 3	<u>′</u>			
SI. No.	Co	omponents	Total Annual Cost in Rs for 2021-22	Total Annual Cost in Rs for 2022-23	Total Annual Cost in Rs for 2023-24	Total Annual Cost in Rs for 2024-25	Total Annual Cost in Rs for 2025-26
Ţ	Establishm	ent charges	1279592.64	1343572.27	1410750.89	1481288.43	1555352.85
II	Electricity C	Charges	3920976.00	4117024.80	4322876.04	4539019.84	4765970.83
111	Maintenand	ce of Civil Works	348732.50	366169.13	384477.58	403701.46	423886.53
IV	1	ce of Electro- I components	1320637.33	1386669.20	1456002.66	1528802.79	1605242.93
V	Consumab	les	756493.00	794317.65	834033.53	875735.21	919521.97
VI	Transporta communica	tion and ation charges	24000.00	25200.00	26460.00	27783.00	29172.15
VII		ter quality testing, eration & other	7200.00	7560.00	7938.00	8334.90	8751.65
		Total Rs.	7657631.47	8040513.04	8442538.70	8864665.63	9307898.91
. Water ch	harge/KL =			7645868.97 x (365 Days x 20	,	Rs.	10.46
		litres of pure water i				Rs.	10.46
		litres of pure water i				Rs.	10.98
		litres of pure water i				Rs.	11.53
		litres of pure water i				Rs.	12.11
	Rate per	litres of pure water i	ncluding power	charges 2025-	26	Rs.	12.71

Section Officer

Asst. Executive Engineer, RWS & S Sub Division, Srirangapattana

ESTIMATE FOR OPERATION & MAINTENANCE OF MULTI VILLAGE WATER SUPPLY SCHEME TO MAHADEVAPURA, CHIKKANAKANAHALLI, K SHETTYHALLI AND OTHER 16 VILLAGES OF MANDYA DISTRICT

(II) Abstract O & M Budget (excluding Energy charges)

וו) אטפנו	act O & WI E	suaget (excluding i	Energy charge	S)				
SI. No.	C	omponents	Total Annual Cost in Rs for 2021-22	Total And Cost in for 2022	Rs	Total Annual Cost in Rs for 2023-24	Total Annual Cost in Rs for 2024-25	Total Annual Cost in Rs for 2025-26
1	Establishm	nent charges	1279592.64	1343572	2.27	1410750.89	1481288.43	1555352.85
11	Electricity (Charges	0.00	0.00		0.00	0.00	0.00
Ш	Maintenan	ce of Civil Works	348732,50	366169.	.13	384477.58	403701.46	423886.53
IV	t .	ce of Electro- al components	1320637.33	1386669	.20	1456002.66	1528802.79	1605242.93
V	Consumab	oles	756493.00	794317.	65	834033.53	875735.21	919521.97
VI	Transporta communic	ntion and ation charges	24000.00	25200.0	00	26460.00	27783.00	29172.15
VII		ter quality testing, neration & other	7200.00	7560.0	0	7938.00	8334.90	8751.65
2		Total Rs.	3736655.47	3923488	3.24	4119662.66	4325645.79	4541928.08
\Materic	harge/KL =		(3724892.97 x 1000)			•	D.	7.40
	narge/NL =		(365 Days x 2005728)				Rs.	5.10
Ra	ate per litres	of pure water includ 2021-22	ing power char	ges			Rs.	5.10
Ra	ate per litres	of pure water includ 2022-23	ing power char	ges			Rs.	5.36
Ra	ate per litres	of pure water includ 2023-24	ing power char	ges			Rs.	5.63
Ra	ate per litres	of pure water includ 2024-25	ing power char	ges			Rs.	5.91
Ra	ate per litres	of pure water includ 2025-26	ing power char	ges			Rs.	6.20

Section Officer

Asst. Executive Engineer, RWS &S Sub Division, Srirangapattana

ESTIMATE FOR OPERATION & MAINTENANCE OF MULTI VILLAGE WATER SUPPLY SCHEME TO MAHADEVAPURA, CHIKKANAKANAHALLI, K SHETTYHALLI AND OTHER 16 VILLAGES OF MANDYA DISTRICT

		Y	'ear	_		Base year considered for projected population 2011	Year considered for projected population 2051	Donulation		
			ulation			18720	22794	19664		
Service cons	sidered for de	esign (LPCD)	<u> </u>			85	85	85		
Water Dema	and, Litres/da	y including S	ystem loss	ses @ 20%		1909440	2324988	2005728		
As per the E	stimate Tota	I required wat	er= 2,60 N	MLD						
Designed Ho	ours of Pump	ing				20.00	Hrs			
Design Disch	harge (LPH)					125000	for 19664 population			
Present requ	uirement of w	ater per day				2005728	Litres/day for 2018			
Hours of pur	mping actuall	y required for	2018 pop	ulation			16.05			
			Say				16.50 hrs			
		Routine Ope	ration an	d Maintenance						
HP Require				00	LID		0044150	1011		
) Treatmen				80 10	HP		CONNECT			
		R/ZBR/Pure	water	10	HP		CONNECT	NON		
oumping ma			water	90	HP		CONNECT	ION		
d) Others			Total	186	O HP or 134.28	I KVA				
	/ KWH for the	e year 2018-1 M)		Rs.5.00 Norma						
Month for to BESCOM)	he year 2018	onthly charges 3-19 (As per H			Rs.200					
I). Establishment Charges Required O& M Personnel										
SI. No.	Compo	onents	Pump operator s	Helpers	Valve man	AE/JE	Electrician /Mechanic	Helper cum Watchman		
1	Head	works	1	-	1	-	•	1		
2	Water Treat	ment Plant	1	-	1	-	•	1		
3	Raw Water I	Rising Main	-	•	0		-	-		
4	Interme Sump/MBR water pumpii mai	/ZBR/Pure ng & gravity	0	-	1	-	-	-		
5	Service r		0	•	1	_	-	-		
	(MBR/OHT Total	SIGLOKS)	2	0	4	_	0	2		
Annual Cos	t of establis	ment		<u> </u>						
SI. No.	omponents	Operating	Staff		ay (Rs.) As per concerned CSI	wages of the R of PRED/PWD	Months	Total (Rs.)		
	ump perators	2			14304.39		12	343305.36		
	elpers	0			0		0	0.00		
3 V	alve man	4			13003.99		12	624191.52		
	E/JE	-					0	•		
5 EI	lectrician / lechanic	-			-		12	-		
M										
6 H	elper cum /atchman	2			13003.99	Total Rs.	12	312095.76		

SI.								
No.	Components	HP	Hrs. of pumping	KVA/HP	Total KVA	Days	Energy charges (At normal tariff rates)	Total (Rs.)
1	Head works,	80	16.00	0.746	59.68	365	5.00	1742656.00
2	Treatment plant	10	16.00	0.746	119.36	365	5.00	217832.00
3	Intermediate sump/MBR/Z BR/Pure water pumping mains	90	16.00	0.746	67-14	365	5.00	1960488.00
4	Others		16.00	0.746	0	365	5.00	0.00
5	Fixed month	nly charges	35				200.00	0.00
	1		25				200.00	0.00
					Total	Annual power co	nsumtion charges Rs.	3920976.00
					Total annu	al expenditure to	wards power charges	3920976.00
111).	Maintenance	of Civil Wor	ks					
SI. No.	Co	omponents		Estimated Cost of work (CV)	Cost % age work (For the	of Maintenance estimate cost of Second 3 Years liability period)	Maintenance Cost per annum (in Rs.)	Total Maintainace cost for 1 year days (In Rs.)
1	Head works, V Pure water risi mains, Pure w Master/Zonal t houses/Contro rooms (all civil lines)	ing mains, Fe ater sump, palancing tan ol Rooms, D I components	eder k, Pump Unit	139493000.00	(0.25	348732.50	348732.5
		348732.50						
Total Rs. 139493000 Total per ar IV). Operation and maintenance of Mechanical and Electrical Works								
1		l and Electric y/Valves/Chlo		fiz. Pumping nit and etc.,	52825493	2.50	1320637.33	1320637.3
								1320637.33
ntal qua	entity of trooted a					200	0000 LPD or 2.6 MLD	
otal qua	ilility of freated v	water from W	TP			200		
1	Bleaching po				.6*5*80.00*365		379	600.00
	Bleaching po	wder 5kg/ML	D @ Rs		6*11*27.00*36	j=		600.00
1	Alum @ 11	wder 5kg/ML 80.00/kg kg/MLD/Day 27.00/Kg	D @ Rs at Rs.	2.		5=	281	
1 2	Alum @ 11	wder 5kg/ML 80.00/kg kg/MLD/Day 27.00/Kg Oil 0.10 lit/da Ltr (0.50*2*36	at Rs. at Rs. by/unit @ 55*200)	2.	6*11*27.00*36	5= 5= =	281 255	853.00
2	Alum @ 11 Transformer Rs 350.00/L SAE-40 grade Kg/day for 365 Supplying of Cotton waste	wder 5kg/ML 80.00/kg kg/MLD/Day 27.00/Kg Oil 0.10 lit/da .tr (0.50*2*36 e oil for VT pu 5 days at Rs.:	at Rs. at Rs. y/unit @ 55*200) umps 0.1 260.00/ltr Grease,	2.	6*11*27.00*36 0.10*2*350*365	5= 5= =	281 255 94	853.00
3	Alum @ 11 Transformer Rs 350.00/L SAE-40 grade Kg/day for 365 Supplying of Cotton waste	wder 5kg/ML 80.00/kg kg/MLD/Day 27.00/Kg Oil 0.10 lit/da tr (0.50*2*36 e oil for VT pu 5 days at Rs	at Rs. at Rs. y/unit @ 55*200) umps 0.1 260.00/ltr Grease,	2.	6*11*27.00*36 0.10*2*350*365 0.10*260*365=	5= 5= =	281 255 949 600	853.00 550.00 90.00
3	Alum @ 11 Transformer Rs 350.00/L SAE-40 grade Kg/day for 365 Supplying of Cotton waste	wder 5kg/ML 80.00/kg kg/MLD/Day 27.00/Kg Oil 0.10 lit/da tr (0.50*2*36 e oil for VT pu 5 days at Rs Consumbels e, Rubber pa 5000/ Month	at Rs. y/unit @ 55*200) umps 0.1 260.00/ltr Grease, cking &	2	6*11*27.00*36 0.10*2*350*365 0.10*260*365=	5= 5= :=	281 255 949 600	853.00 550.00 90.00
1 2 3 4 5	Alum @ 11 Transformer Rs 350.00/L SAE-40 grade Kg/day for 365 Supplying of Cotton waste etc., Transportatio Annual cost of	wder 5kg/ML 80.00/kg kg/MLD/Day 27.00/Kg Oil 0.10 lit/da .tr (0.50*2*36 e oil for VT pu 5 days at Rs.: Consumbels e, Rubber pa 5000/ Month	at Rs. at Rs. at Rs. py/unit @ 55*200) umps 0.1 260.00/ltr Grease, cking & nunication on (appox. mobile con	2	6*11*27.00*36 0.10*2*350*365 0.10*260*365= Lump Sum	5= 5= :- Total Rs.	281: 255 94: 600 756	853.00 550.00 90.00
1 2 3 4 5	Alum @ 11 Transformer Rs 350.00/L SAE-40 grade Kg/day for 365 Supplying of Cotton waste etc., Transportatio Annual cost of work), Uniform	wder 5kg/ML 80.00/kg kg/MLD/Day 27.00/Kg Oil 0.10 lit/da .tr (0.50*2*36 e oil for VT pu 5 days at Rs.: Consumbels e, Rubber pa 5000/ Month	at Rs. at Rs. y/unit @ 55*200) umps 0.1 260.00/itr Grease, cking & aunication on (appox. mobile conticution on (12)	2 two-wheelers 8	6*11*27.00*36 0.10*2*350*365 0.10*260*365= Lump Sum	5= 5= :- Total Rs.	281: 255 94: 600 756	853.00 650.00 90.00 90.00
1 2 3 4	Alum @ 11 Transformer Rs 350.00/L SAE-40 grade Kg/day for 363 Supplying of Cotton waste etc., Transportatio Annual cost of work), Uniform @ Rs. 2000/M	wder 5kg/ML 80.00/kg kg/MLD/Day 27.00/Kg Oil 0.10 lit/da Ltr (0.50*2*36 e oil for VT pu 5 days at Rs Consumbels e, Rubber pa 5000/ Month	at Rs. at Rs. py/unit @ 55*200) umps 0.1 260.00/ltr Grease, cking & nunication on (appox. mobile con 12 Tota	2 two-wheelers & mmunication chart. I Rs. eneration & other	6*11*27.00*36 0.10*2*350*365 0.10*260*365= Lump Sum	Total Rs.	281: 255 94: 600 756: 240	853.00 90.00 90.00 90.00 90.00

Section Officer

Asst. Executive Engineer, RWS &S Sub Division, Srirangapattana



By	••	ater supply to Mahadevapura, Chikkanakanahalli, K Shettyhalli a district	ma onler to this	
ovidi	ing Wa	ater supply to Mahadevapura, ormania district		
		ABSTRACT		Amount
			Quantity	Amount
		Particulars		1461000,00 1446000.00
0.		IVIL WORKS	1 No	/461000,00 T- F000 T
-		tweeting of Intake Chamber & Comitouring	1 No	/4805000-00 5155000-0
1	Cons	struction of Jack Well cum pump house	2 No 169684	100.60 - 946500D.00
2	Con	struction of Jack Wood	4350 Mtrs 145	600 good 3132000:00
3	Pun	nping Machinary JW to WTP		475000.00 430000.0
4	Risi	ing Main from JW to WTP	1 No	600000 00
5	Cor	nstruction of Aerator	1 No	17500000 525500-m
6	Dre	oviding DI Unit	1 No	250000 00 4240000 ·
	+	enstruction of Flash Mixer	1 No	5670000,00 5600000 -d
3		extraction of Clarifloculator	1 No	4659000 0011603000 - DU
8	-	onstruction of Rapid Sand filter	1 No	1463000.00 999500-01
09		O. and B.	1 No .	-663000.00 639000-or
10		- A Backwash tank to No.	1 No	650000.00 685000 - w
12	1-6	construction of Wash Water sump for RSF	1 No	263000.00 264000 - 01
18		- Main Dilling House (IVVIII)	1 No	203000:00 118T00-VO
18	3	Construction of Main'r Unipercentage (Back Wash) Construction of Pump House (Back Wash) DW cump to Back Wash Tank	2 No	420000 OF 1 65090 - U
	31	Construction of Pump House (Back Wash Tank Pumping Machinary PW sump to Back Wash Tank	100 Mtrs	108000.90 118700 -00
			2 No	430000.00 165000 -0
		. Machinary WW Sump to	100 Mtrs	1225000:00 3421088-
100		Pumping Machinary WW sump to Aerator Rising Main From WW sump to Aerator	350 Mtrs	
11-		Draviding Fencing to WTP DATE TOWN	545 Mtrs	2364000.0 241 TOBO-
L	<u>P9</u>	Rising main from Pure Water Sump to MBT NEAR VADIYANDAHALLI	2 No	9463000.00 6928100
1	20	Rising main from 1 are very to MBR NEAR VADIYANDAHALLI		4887000.00 154 5000
1	22	Rising main from Pure Water Sump to IIID Pumping Machinary PW Sump to MBR NEAR VADIYANDAHALLI Pumping Machinary PW Sump to MBR NEAR VADIYANDAHALLI	1 No	C1168000.00 1015000
1	20	MATICI SRI2.5 Lakh Itrs capacity	1 No	304000 00
1	20	78T (GLSR) 1.5 Lakh Itrs capacity	80 Mtrs	167000.00 167000.00
	214	Providing Fencing to MB1	40 Mtrs 66240 Mtrs	e7574009.00 69 8250
1	28	- H Fancing to ABI	400 LS	4052000 00 11000000
	25	Gravity Distribution Main Hollims	1000 LS	-552000 00 2 0 0 0 0 U
	207	HOUSE HOLD CONNECTION		
	38	CESCOM DEPOSIT CESCOM DEPOSIT Road Cross Drain	500 Nos	F400000 8013 19912
-	(12)	Anchor Blocks and Encasting pipe at	9.00 Kms	10800000 00 88 0000
1	90	SCADA		42313247.76
į	45	Providing Dedicated Electric supply line	O° TOTAL	234631740.95
1	98	Providing Dedicated Electric supply line O&M Charges for 5 years include Such 2020 No. 2020	IOIAL	7038952.00
	3	O&M Charges for 5 years ನಾಡುವರಿಂದಂಡಂಗಾ ಇಂಹನಾಯ ನೈ. ಇಲಾವ		35194761-00-1
		Add PMC Charges @ 3% Add Price variation Charges @ 15% ಮೈಸೂರು ವೃತ್ತ. ಮೈಸೂರ್ರ್ಯ	1	= 3134546.24
	3	Add Price variation Charges Charges	OTAL	280000000.00
		Add Price Variation of Grant Miscellaneous and rounding charges	OTAL	
	1			19664 12202 11777
		2004 without O & M		19664 14374 14239
*	1	Per capita cost for 2021 without O & M		
		Per capita cost for 2021 with O & M		10-0

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ನ ಉಪ-ವಿಭಾಗ, ಶ್ರೀರಂಗಪಟ್ಟಣ

C E.'s Reg. No. CE / RDW& ED / TA-4/A6-3/27/2019-20

Administratively approved Vide No. RDP/26/2019-20

Technically Sanctioned for Rs. 28.00 (rore)

Rupees in Words. Twenty Expl. (xore)

Under Head of Account.

NRDWP((40)

Prov	iding Water supply to Mahadevapura, Chikkanakanahalli, K Shettyhall district	i and other 16 v	illages of Mandya
	ABSTRACT		20 th
No.	Particulars	Quantity	Amount
	A) CIVIL WORKS		
1	Construction of Intake Chamber & connecting Pipe	1 No	1446000.00
2	Construction of Jack Well cum pump house	1 No	5155000.00
3	Pumping Machinary JW to WTP	2 No	6968400.00
4	Rising Main from JW to WTP	4350 Mtrs	14546000.00
5	Construction of Aerator	1 No	430000.00
6	Providing DI Unit	1 No	600000.00
7	Construction of Flash Mixer	1 No	
8	Construction of Clarifloculator	1 No	525500.00
9	Construction of Clarifoculator Construction of Rapid Sand filter	1 No	4240000.00 5600000.00
10	Pure Water Sump	1 No	1603000.00
11	Construction of Backwash tank for RSF	1 No	999500.00
12	Construction of Wash Water sump for RSF	1 No	639000.00
13	Construction of Main Pump House (Near P.W Sump)	1 No	685000.00
14	Construction of Pump House (Back Wash)	1 No	264000.00
15	Pumping Machinary PW sump to Back Wash Tank	2 No	118700.00
16	Rising Main From PW sump to Back Wash Tank	100 Mtrs	165000.00
17	Pumping Machinary WW sump to Aerator	2 No	118700.00
18	Rising Main From WW sump to Aerator	100 Mtrs	165000.00
19	Providing Fencing to WTP & Road, Drain Inside WTP	350 Mtrs	3421000.00
20	Rising main from Pure Water Sump to MBT	545 Mtrs	2417000.00
21	Pumping Machinary PW Sump to MBR NEAR VADIYANDAHALLI	2 No	6928100.00
22	MBT(GLSR)2.5 Lakh Itrs capacity	1 No	1545000.00
23	ZBT (GLSR) 1.5 Lakh Itrs capacity	1 No	1075000.00
24	Providing Fencing to MBT	80 Mtrs	304000.00
25	Providing Fencing to ZBT	40 Mtrs	167000.00
26	Gravity Distribution Main from MBT	66240 Mtrs	69825000.00
27	Household Connections	LS	16000000.00
28	CESCOM Deposit	LS	2000000.00
29	Anchor Blocks and Encasing pipe at Road Cross Drain	500 Nos	7676000.00
30	SCADA		27891593.00
31	Providing Dedicated Electric supply line	9.00 Kms	8800000.00
32	O&M Charges for 5 years (Energy Charges)		42313247.76
	TOTAL		234631740.76
	Add PMC Charges		7,038,952.00
	Add Price variation Charges @	7.	35,194,761.00
	Miscellaneous and rounding charges		3,134,546.24
	TOTAL		280000000.00
	Per capita cost for 2019 without O & M	19664	12202
	Per capita cost for 2019 with O & M	19664	14374
I	Lei cahira cost ini ta ia mirij O & M	13004	143/4

SUB ESTIMATE: CONSTRUCTION INTAKE CHAMBER & CONNECTING PIPE

SI. No.	Description of works.	Unit	No	L	В	D	Qty	Rate	Amount.
1	Earthwork excavaton including shor water wherever necessary with stacki lift of 1.5 Mtr etc complete	-	-			•			
	Schedule Of Rates PRE,Myson	re Circle	2012-1	3(Page No.4	l Item No.	.81)			
	Pipe	Cum	1	50.00	3.40	1.45	246.50		
	Inlet Chamber	Cum	0.7854	4.40	4.40	1.50	22.81		
а	0 to 1.50 meter depth						269.31		
	1. In soil,clay,sand,shedu soil,soft mu	rrum (50'	% of the	000.04		500/	404.00	444.00	
	Total Qty) 2. In Hard murrum, boulders, hard Kata	ık (50% o	f the	269.31	X	50%	134.66	144.00	19391.00
	Total Qty)	(00700		269.31	X	50%	134.66	174.00	23431.00
				200.01	^	3070	104.00	174.00	23431.00
b	1.50 to 3.00 meter depth	Cum	1	50.00	2.20	0.70	77.00		
		Cum	0.7854	4.40	4.40	1.00	15.21		
							92.21		
	1. In soil,clay,sand,shedu soil,soft mu	ırrum (60	% of the						
	Total Qty)	J. /400/ -	£ 41	92.21	X	60%	55.33	210.00	11619.00
	In Hard murrum, boulders, hard Kata Total Qty)	IK (4U% 0	i the	92.21	v	40%	20.00	444.00	16275.00
				92.21	X	40%	36.88	444.00	16375.00
2	Diversion of water course by providing necessary for intake well, connecting foundation bailing out by pumping foundation and dismantling of coffer etc., complete with all lead & lifts.	pipe Iline, water o	, Jackwel during ex	l etc. for ccavation and	until comp	letion of			
	Schedule Of Rates KUWS & DB, Item No.IV.1.1) Total Volume Up to 2.0m depth	Karnata	aka Boa	rd 2018-2019	(Page No	.45			
	Curve portion	Sqm	1	17.28	9.50)	164.15		
	Straight portion	Sqm	1	25.00	5.75	5	143.75 307.90	621.60	191391.00
	Total Volume 2.0 to 4.0m depth								
	Curve portion	Sqm	1	17.28	9.50)	164.15		
	Straight portion	Sqm	1	25.00	1.44	ļ	35.94 200.09	1233.12	246735.00
	Total Volume 5m depth								
	Curve portion	Sqm	1	17.27876	4.75	5	82.07	1849.12	151757.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
3	Providing and laying granite or trap or size jelly for foundation laid in 15 cm t mixing, curing etc. complete as per size.	hick laye	rs and well	compacted in	ncluding m				
	Schedule Of Rates PRE, Mysore C Levelling Course	Circle 20	012-13 (Pa	age No.6 Ite	m No.2.2)				
		Cum	0.7854	4.40	4.40	0.20	3.04 3.04	3984.00	12111.00
4	Providing and laying vibrated cement of excluding cost of reinforcement with 2 any other approved hard jelly with S Reaffirmed - 2008 including cost and centering scaffolding, cement mortar including machline mixing, vibrating, of and giving satisfactory water proof to charges). For flat or floor slab (M-30)	20 mm a uper plad d conve plasteri curing ma	nd down sizesticiser @ 3 yance of all ng 1:3 propa aking constr	ze of granite of Bitrs confirmin I materials in portion, 20 m ruction joint w	of trap or bag to IS 910 cluding form thick for herever nec	asalt or 3-1999 m work inside cessary			
	Schedule Of Rates PRE,Mysore		•	_		•			
		Cum	0.7854	4.00	4.00	0.30	3.77	5774.00	21768.00
5	Providing and laying Vibrated M30 d gradation hard granite, trap or basal shoring, strutting, plywood/steel form materials, for well curb or RCC cutting	t broken n work,	metal incluctions	uding weigh b complete wi	atch plant	mixing,			
	Schedule Of Rates KUWS & DB, Item No.IV.3.12.a)	Karnata	aka Board	2018-2019 (Page No.	18			
	Side walls of channel	Cum	3.1416	3.30	0.30	5.00	15.55		
	Haunch	Cum	3.1416	3.00	0.05		0.42		
	Deduct openings	Cum	-4	0.60	0.30	0.30	-0.22		
	pipe protion	Cum	-2	0.13		0.30	-0.08		
							15.67	11032.00	172871.00
6	Providing and laying Reinforced ceme graded granite or trap or basalt jelly super plasticiser @ 3lts confirming to well consolidated including centering, required plumb and face in CM.1:3 p design and specifications etc., comple of steel and fabrication charges)	of appro IS-9103-2 formwo proportion	oved quality 2008 in laye rk, vibrating n wherever	of 20mm and rs of not more of not more of not more of not more of the contract	d down size than 15 cm oth finishing c., complete	e, with s thick, to the as per			
	Schedule Of Rates PRE, Mysore	Circle 2	012-13 (P	age No.28 It	em No.4.4	C)			
	Covering Slab	Cum	0.7854	3.60	3.60	0.15	1.53		
	deduct opening	Cum	-0.7854	0.60	0.60	0.15	-0.04		
							1.49	9525.00	14192.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
7	Providing and fixing 60x60 cms M.S. in of M.S. angle 50x50x6mm and M.S. sh and locking arrangement, painting etc., of	utters of	31.5mm	or B.G.10	thick with h	ninges on top			
	Schedule Of Rates PRE, Mysore C	ircle 20	12-13 (Page No.	30 Item N	o.4.9)			
	Inspection door 0.6*0.6	Nos	1				1	1787.00	1787.00
8	Providing and fabricating TMT reinfo hooking, lapping and / or welding who binding wire of approved quality and guthe adjoining members wherever necessas per design specification and direction	nerever inclusions inclusion inclusions inclusions inclusion inclusions inclusions inclusion inclusion inclusion inclusion inclusion inclusion inclusion i	equired uding co luding a	placing in ost of bindir Il laps and	position ar ng wire and wastages e	anchoring to ect., complete			
	Schedule Of Rates PRE, Mysore C 2.11)	ircle 20	12-13 (Page No.	VIII Item N	No.79 &			
	Qty of Item No 3		20.93	@ Say	120	Kg/Cum Kg	2511.60 2512.00		
						Mt	2.512	56697.50	142424.00
	complete as per specifications. Specific No.1000 / 2300 (450mm. dia) Schedule Of Rates PWD, Mysore C	Circle 2	016-17	(Page No	o.263 Item	·	400.00	0707.00	070700 00
	450 mm dia	Rmt	2	50.	00		100.00	2767.00	276700.00
10	Providing & fixing Weld mesh 75mm x 2	25mm of	6g x 10	g					
	PWD SR 2016-17 P.No XXIX SL No.84	15						40	
	Basic Rate			230.					
	Add for over heads			23.					
	Add for Contractor's profit			23. 276.					
				210.					
		Sqm	4	0.	75	0.45	1.35	276.00	373.00
11	Supply and Delivery of resilient seated Ductile iron of grade GGG50, wedge of the valves should be of vaccum tight at 5163-89/IS 14846-2000/ DIN 3202 F sealing rings (minimum 2 "O" rings). galvanized bolts and nuts of required not seat the supplementary of the seat of	fully rubb and 100% 4/F5,. T All the	er lined leak pr he stea valves s	with EPDN oof with fac m Sealing Shall be su	If and Seals to dimension and seals to dimens	s of NBR and ons as per BS with toroidal			
	Schedule Of Rates KUWS & DB, I	Karnata	ka Boa	erd 2018-2	019 (Pag	e No.18			
	300 mm dia	No.	2				2.00	71491.84	142984.00
12	Miscellaneous and rounding charges								91.00
	(llowingth			~					

ಸಹಾಯಿಕ ಕಾಟಕು ಅಂಜನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ಸೇರು ಮೆಸ್ತುಷ್ಟ್ಯ ಪ್ರಾ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ 1446000.00

Koushik Consultant

2 .ESTIMATE FOR CONSTRUCTION OF 6 $\,$ M DIA JACK WELL CUM PUMP HOUSE

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Earthwork excavaton including shorin water wherever necessary with stacking lift of 1.5 Mtr etc complete	-	-			•			
	Schedule Of Rates PRE, Mysore	Circle	2012-13 (Page No.4	l Item No	.81)			
	Jack well	Cum	0.785	16.50	16.50	1.50	320.57 320.57		
а	Upto 1.50 M								
	In soil,clay,sand,shedu soil,soft murr Total Qty)	um (85%	% of the	320.57	X	85%	272.48	144.00	39237.00
	2. In Hard murrum, boulders, hard Katak	(15% of	the					174.00	8368.00
	Total Qty)			320.57	X	15%	48.09	174.00	0300.00
b	1.50 to 3.00 M	Cum	0.785	15.30	15.30	1.50	275.64		
	2. In Hard murrum,boulders,hard Katak	(10% of	the						
	Total Qty)	,		275.64	x	10%	27.56	210.00	5788.00
	3. In soft rock (90% of the Total Qty)			275.64	X	90%	248.08	444.00	110148.00
С	3.00 to 4.50 meter depth		0.785	14.10	14.10	1.50	234.10		
	2. In Hard murrum,boulders,hard Katak	(10% of	f the					246.00	5759.00
	Total Qty)			234.10	Х	10%	23.41		
	3. In soft rock (90% of the Total Qty)			234.10	Х	90%	210.69	498.00	104924.00
d	4.50 to 6.00 meter depth		0.785	12.90	12.90	1.50	195.95		
	2. In Hard murrum,boulders,hard Katak	(10% of	f the					202.00	5527.00
	Total Qty)			195.95	x	10%	19.60	282.00	5527.00
	3. In soft rock (90% of the Total Qty)			195.95	X	90%	176.36	552.00	97351.00
е	6.00 to 7.50 meter depth		0.785	11.70	11.70	1.50	161.19		
	3. In soft rock (90% of the Total Qty)4. In hard rock requiring blasting (10%)	of the Tr	ntal Oty)	161.19	x	90%	145.07	606.00	87912.00
	4. In hard rock requiring blasting (10%)	or ute 10	otal Qty)	161.19	x	10%	16.12	976.00	15733.00
f	7.50 to 9.0meter depth		0.785	10.50	10.50	1.50	129.82		
	3. In soft rock (90% of the Total Qty)	-£4L - T.	-4-1 (04.)	129.82	X	90%	116.84	660.00	77114.00
	4. In hard rock requiring blasting (10%	ot the To	otai Qty)	129.82	x	10%	12.98	1066.00	13837.00
g	9.0 to 10.5 meter depth		0.785	9.30	9.30	0.19	12.90		
2.0	3. In soft rock (80% of the Total Qty)			12.90	x	80%	10.32	714.00	7368.00
	4. In hard rock requiring blasting (20%	of the To	otal Qty)	12.90	x	20%	2.58	1156.00	2982.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
2	Providing and laying granite or trap or t size jelly for foundation laid in 15 cm th mixing, curing etc. complete as per s	ick layer	s and well	compacted	including		₩ 14.		
	Schedule Of Rates PRE, Mysore C	ircle 20)12-13 (P	age No.6 Ite	em No.2.2)			
	Levelling Course								
	Jackwell	Cum	0.785	8.10	8.10	0.15	7.73		
							7.73	3984.00	30796.00
3	Providing and laying vibrated cement of excluding cost of reinforcement with 2 any other approved hard jelly with Su Reaffirmed - 2008 including cost and centering scaffolding, cement mortar including machline mixing, vibrating, country and giving satisfactory water proof te charges). For flat or floor slab (M-30)	0 mm ar per plas I convey plasterir uring ma	nd down si sticiser @ 3 vance of a ng 1:3 pro aking const	ze of granite 3ltrs confirmin Il materials i portion, 20 r ruction joint	of trap or ng to IS 91 ncluding fo nm thick fo wherever n	basalt or 103-1999 orm work or inside ecessary	7		
	Schedule Of Rates PRE, Mysore	Circle	2012-13 (Page No.9	Item No.2	.10.1)			
	Landing Platform	Cum	4	1.00	1.00	0.15	0.60		
	Raft Slab	Cum	0.785	7.80	7.80	0.60	28.66		
						_	29.26	5774.00	168947.00
4	Providing and laying Vibrated M30 degradation hard granite, trap or basalt shoring, strutting, plywood/steel form materials, for well curb or RCC cutting of	broken work,	metal includering etc.	uding weigh , complete v	batch plan	t mixing,	1		
	Schedule Of Rates KUWS & DB, I Item No.IV.3.12.a)		ka Board	2018-2019	(Page No	0.48			
	(2) -do- for RCC steining below ground Side wall	level. Cum	3.142	6.60	0.60	2.00	24.88		
	Side Wall		3. 142 3.142 x 1/2)		0.00	2.00	24.00		
	Haunch	Cum	1.571	6.45	0.45	0.45	2.05		
	Side wall	Cum	3.142	6.30	0.30	6.44	38.24		
						-		11032.00	718955.00
	(3) -do- for R.C.C steining above groun	d level u	pto 3.50M	height					
		_							
а		Cum	3.14	6.23	0.23	3.50 _	15.75	44405.04	475077.00
							15.75	11135.04	175377.00
С	3.50m to 7.00 m Height Deduction	Cum	3.14	6.23	0.23	3.50	15.75		
	windows	Cum	-5	1.20	0.30	1.35	-2.43		
	Rolling Shutter	Cum	-1	3.00	0.30	2.40	-2.16		
	Ventilators	Cum	-5	1.20	0.30	0.45	-0.81	-	
						_	10.35	11238.08	116314.00
									- 3

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
d	7.00m to 10.00 m Height	Cum	3.14	6.23	0.23	2.30	10.35	<u> </u>	
	Deduction	Cum	-3.14	6.23	0.23	0.45	-2.02		
				編 97		_	8.33	11341.12	94472.00

Providing and laying Reinforced cement concrete of mix design of M-30 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than '15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in C.M.1:3 proportion wherever necessary etc., complete as Per design and specification and giving satisfactory ,water proof test including construction joints wherever necessary as per the directions of the departmental Officers complete for ring beam, side walls, bottom dome or bottom slab, shell portion and bottom ribs (exclusive of cost of steel and fabrication charges and jointing materials)

Schedule Of Rates PRE, Mysore Circle 2012-13 (Page No.26 Item No.4.3C)

(0.23+0.53)/2*0.45

Cantilever ring beam, Cum 3.14 6.23 0.17

3.35 12291.00 41175.00

Providing and laying Reinforced cement concrete of mix design of M-30 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete as per design and specifications etc., complete for top rib and top dome or top slab (exclusive cost of steel and fabrication charges)

Schedule Of Rates PRE, Mysore Circle 2012-13 (Page No.28 Item No.4.4c.1)

2 x 4.413

Dome	Cum	3.142	8.83	0.125	1.200	4.16	
Floor Projection	Cum	3.142	7.36	0.900	0.150	3.12	
Roof projection	Cum	3.142	7.06	0.600	0.125	1.66	
						8.94	9525.00

KSRB 4.2.10: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.5175cum and fline aggregates @ 0.345cum, with superplastisiser @0.225lts, machline mixed, well compacted for plain chejja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machlinery, finishing, curing, complete as per specifications (Excluding cost of steel, fabrication and plastering charges). Specification No. KBS 4.1, 4.6

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.14 Item No.4.19)

Kg

Windows	Sqm	5	1.20	0.60	3.60		
Rolling Shutter	Sqm	1	3.00	1.35	4.05		
					7.65	456.00	3488.00

Providing and fixing MS chequered plate of 8mm thickness for Jack well flooring including fabrication, welding, etc., complete etc., complete

MR

325.00

130.00

42250.00

85154.00

Si. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
9	Providing and fixing MS girder of ISMB fabrication, welding, etc., complete.	250 25	0 x 200	x 10 mm fo	r flooring	of pump house	including		
		Kg				MR	725.00	130.00	94250.00
10	KSRB 7.5: Providing and fixing pull and 18 guage, 75mm wide cold rolled steel bottom rail, with interlocking arrangem suspension shaft with High tension coidesigned pipe shaft, with bracket plate inside & outside locking with push & pull handles with all fittings and accessories cover) cost of materials, labour, HOM of size 3mx2.8 m Specification No. KBS 7.	laths of nents for I type sp es, guide operation s, painted f machlin	convex steel I prings two channed ons comp d with a dery corr	corrugation aths by me- vo numbers, els, ball bea plete includir coat of red	, with side ans of alt mounted ring arrang ng pulling h lead paint	e guides and ernate clips, on specially gements, for nooks, 4Nos. (without top			
	Schedule Of Rates PWD, Mysore C	ircle 20	16-17	(Page No.:	34 Item N	o.7.5)			
		Sqm	1	3.00)	2.40	7.20	2862.00	20606.00
11	KSRB 7.6 : Providing and fixing top covpush rolling shutters bent to shape in materials, labour, HOM of machlinery co 7.10.6 / 7.12	cluding	cost of	red lead pri	mer coat	of painting,			
	Schedule Of Rates PWD, Mysore C	ircle 20)16-17	(Page No.:	35 Item N	lo.7.6)			
		Rmt	1	3.00)		3.00	473.00	1419.00
12	KSRB 7.7: Providing and fixing in posi and ventilators side hung/top hung fully of 25x33x3mm, weighing 1.419 Kg/m to section of size 25x46x3mm, weighing weighing 0.839 kg/m for glazing of weighing and fixing 4mm, thick reeded steel sections should confirm to I.S 745 should be cut to length welded and electenonned and revetted into the frames cleaned free of rust and painted with or coats of ready mix paint of approved contracts.	openably openably openably 2.28Kg vindows I glass v 2.1990, openably openab	e as per outer an	approved d d inner fram r providing re than 34 twood beadi holdfasts of subdividing ne steel surfa prrosive pain including cost	rawings us nes and ce T section cms. c to ng of requ approved frames of face shall b t and finisl st of mater	sing Z angles entral mullion 19x19x3mm or c including aired size, all size, section unit shall be be thoroughly hing with two rials, fixtures,	· ·		
	labour and HOM of machlinery complete /7.12.2 / 7.12.3 / 7.12 Schedule Of Rates PWD, Mysore Of	·		·					
а	Windows	Sqm	5	1.2	0	1.35	8.10		
b	Ventilators	Sqm	5	1.2	0	0.45 _	2.70 10.80	3530.00	38124.00
						_			

SI. lo.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amoun
3	Ladder inside the contaliner: Provimm (approx.) "C" Section x 3.0 mr rungs at 250 mm C/C ladder fiix necessary 25mm dia., G.I. shutters the Tank walls to prevent bucklinembedding the ladder bottom comp	m of ladder sed at an ar with necessing of the la	side chann ngle of 70 sary G.I. fa	els in to 25n degrees to steners for b	nm dia fluta horizontal racing the l	al pipe for including adders to			
	Schedule Of Rates PRE,Myson	re Circle 20)12-13 (P	age No.29	Item No.4	.6 b)			
		Mtr	1	12.00			12.00	2609.00	31308.0
4	Providing and fabricating TMT re hooking, lapping and / or welding binding wire of approved quality and the adjoining members wherever n as per design specification and dire	g wherever of the whole when the whole where where when the whole when the whole where whe	required,pl luding cost luding all l	acing in pos of binding was aps and was	sition and t vire and and stages ect.,	cying with choring to complete			
	Schedule Of Rates PRE, Mysor 2.11)	re Circle 20)12-13 (P	age No.VIII	Item No.7	79 &			
	For Raft concrete	Kgs	1	29.26	100.00 K	g/Cum	2926.00		
	For Steining wall	Kgs	1	99.60	130.00 K	g/Cum	12948.00		
	For Roof slab	Kgs	1	12.29	120.00 K	g/Cum	1475.00		
	Chejja	Kgs	1	0.65	80.00 K	g/Cum	52.00		
						Kg	17401.000		
5	Supplying & fixing 40 mm dia G.I. vibrated R.C.C. post of size 100 x	150 mm at to	op and 150) x 150 mm a	at bottom pl	aced at 2	17401.000 17.401	56697.50	986593.0
5		150 mm at to m including	op and 150 curing, pai) x 150 mm a inting G.I. pip	at bottom pl bes with two	MT I to 1:2:4 aced at 2 o coats of		56697.50	986593.0
5	vibrated R.C.C. post of size 100 x Mtr. intervals for a height of 750 m anticorrosive steel paint over a pri Mtr. is for 3 rows of G.I. pipes.) Schedule Of Rates KUWS & D	150 mm at to im including mer coat wit	op and 150 curing, pai h all lead) x 150 mm a inting G.I. pip and lift etc.,	at bottom pl pes with two complete. (MT I to 1:2:4 aced at 2 o coats of (Rate per		56697.50	986593.0
5	vibrated R.C.C. post of size 100 x Mtr. intervals for a height of 750 m anticorrosive steel paint over a pri Mtr. is for 3 rows of G.I. pipes.)	150 mm at to im including mer coat wit	op and 150 curing, pai h all lead) x 150 mm a inting G.I. pip and lift etc.,	at bottom pl pes with two complete. (MT I to 1:2:4 aced at 2 o coats of (Rate per		56697.50	
	vibrated R.C.C. post of size 100 x Mtr. intervals for a height of 750 m anticorrosive steel paint over a pri Mtr. is for 3 rows of G.I. pipes.) Schedule Of Rates KUWS & D Item No.III.1.18)	150 mm at to am including mer coat with B, Karnata plying two coall surface in face free free	op and 150 curing, paid hall lead ka Board 1 cluding prior mortar	ox 150 mm a inting G.I. pip and lift etc., 2018-2019 23.12 bil bound wa iming coat was drops and	at bottom ploes with two complete. ((Page Notes that the complete is a shable distempother foreigness)	MT d to 1:2:4 aced at 2 o coats of (Rate per b.43 emper of er primer on matter	17.401	e e	
	vibrated R.C.C. post of size 100 x Mtr. intervals for a height of 750 m anticorrosive steel paint over a pri Mtr. is for 3 rows of G.I. pipes.) Schedule Of Rates KUWS & D Item No.III.1.18) Per Mtr of 3rows KSRB 15-14.1 : Providing and ap approved brand and shade on wa after thoroughly brooming the sur including preparing the surface ex	150 mm at to am including mer coat with B, Karnata plying two coall surface in face free frozen and san	op and 150 curing, pai h all lead ka Board 1 oats with o cluding pri om mortar d paper s	23.12 bil bound was iming coat we drops and mooth, cost	at bottom ploes with two complete. ((Page Notes that the distance of materials)	MT at to 1:2:4 aced at 2 coats of (Rate per co.43)	17.401	e e	
	vibrated R.C.C. post of size 100 x Mtr. intervals for a height of 750 m anticorrosive steel paint over a pri Mtr. is for 3 rows of G.I. pipes.) Schedule Of Rates KUWS & D Item No.III.1.18) Per Mtr of 3rows KSRB 15-14.1 : Providing and ap approved brand and shade on wa after thoroughly brooming the sur including preparing the surface ex complete as per specifications. Schedule Of Rates PWD,Myso	150 mm at to am including mer coat with B, Karnata plying two coall surface in face free frozen and san	pp and 150 curing, paid hall lead lead lead lead lead lead lead l	23.12 x 150 mm a inting G.l. pip and lift etc., 2018-2019 23.12 bill bound was iming coat we drops and mooth, cost 26.00	at bottom ploes with two complete. ((Page Notes that the distance of materials)	MT at to 1:2:4 aced at 2 coats of (Rate per co.43)	17.401	e e	
	vibrated R.C.C. post of size 100 x Mtr. intervals for a height of 750 m anticorrosive steel paint over a pri Mtr. is for 3 rows of G.I. pipes.) Schedule Of Rates KUWS & D Item No.III.1.18) Per Mtr of 3rows KSRB 15-14.1 : Providing and ap approved brand and shade on wa after thoroughly brooming the sur including preparing the surface ex complete as per specifications. Schedule Of Rates PWD,Myso)	150 mm at to am including mer coat with B, Karnata plying two coall surface in face free frozen and san ore Circle 2	pp and 150 curing, paid hall lead ha	23.12 x 150 mm a inting G.l. pip and lift etc., 2018-2019 23.12 bill bound was iming coat was drops and mooth, cost 2x 4.413	at bottom ploes with two complete. ((Page Notes that the distance of materials)	MT d to 1:2:4 aced at 2 o coats of (Rate per	23.12 113.11	e e	
	vibrated R.C.C. post of size 100 x Mtr. intervals for a height of 750 m anticorrosive steel paint over a pri Mtr. is for 3 rows of G.I. pipes.) Schedule Of Rates KUWS & D Item No.III.1.18) Per Mtr of 3rows KSRB 15-14.1 : Providing and ap approved brand and shade on wa after thoroughly brooming the sur including preparing the surface ex complete as per specifications. Schedule Of Rates PWD,Myso) In side wall	150 mm at to am including mer coat with B, Karnata plying two coall surface in face free frozen and sandere Circle 2	pp and 150 curing, paid hall lead lead lead lead lead lead lead l	23.12 x 150 mm a inting G.l. pip and lift etc., 2018-2019 23.12 bill bound was iming coat we drops and mooth, cost 26.00	at bottom ploes with two complete. ((Page Notes that the distemption of materials are the materials	MT d to 1:2:4 aced at 2 coats of (Rate per coats) acemper of er primer gn matter s, labour, 15.49.1	17.401 23.12 113.11 33.28	e e	
	vibrated R.C.C. post of size 100 x Mtr. intervals for a height of 750 m anticorrosive steel paint over a pri Mtr. is for 3 rows of G.I. pipes.) Schedule Of Rates KUWS & D Item No.III.1.18) Per Mtr of 3rows KSRB 15-14.1 : Providing and ap approved brand and shade on wa after thoroughly brooming the sur including preparing the surface ex complete as per specifications. Schedule Of Rates PWD,Myso) In side wall Celling	150 mm at to am including mer coat with B, Karnata plying two coall surface in face free frozen and san ore Circle 2 Sqm Cum	pp and 150 curing, paid hall lead ha	23.12 oil bound was iming coat was drops and mooth, cost Page No.11 6.00 2 x 4.413 8.83	at bottom ploes with two complete. ((Page Notes that the distemption of materials are the materials	MT d to 1:2:4 aced at 2 o coats of (Rate per	17.401 23.12 113.11 33.28	e e	
	vibrated R.C.C. post of size 100 x Mtr. intervals for a height of 750 m anticorrosive steel paint over a pri Mtr. is for 3 rows of G.I. pipes.) Schedule Of Rates KUWS & D Item No.III.1.18) Per Mtr of 3rows KSRB 15-14.1 : Providing and ap approved brand and shade on wa after thoroughly brooming the sur including preparing the surface ex complete as per specifications. Schedule Of Rates PWD,Myso) In side wall Celling Qty as per vide item No. 7 Deduction	150 mm at to am including mer coat with B, Karnata plying two coall surface in face free frozen and san ore Circle 2 Sqm Cum	pp and 150 curing, paid hall lead ha	23.12 oil bound was iming coat was drops and mooth, cost Page No.11 6.00 2 x 4.413 8.83	at bottom ploes with two complete. ((Page Notes that the distribution of materials are the complete of the	MT d to 1:2:4 aced at 2 o coats of (Rate per co.43 demper of er primer gn matter s, labour, demper of 1.20 o efficient	23.12 113.11 33.28	e e	
	vibrated R.C.C. post of size 100 x Mtr. intervals for a height of 750 m anticorrosive steel paint over a pri Mtr. is for 3 rows of G.I. pipes.) Schedule Of Rates KUWS & D Item No.III.1.18) Per Mtr of 3rows KSRB 15-14.1 : Providing and ap approved brand and shade on wa after thoroughly brooming the sur including preparing the surface ex complete as per specifications. Schedule Of Rates PWD,Myso) In side wall Celling Qty as per vide item No. 7	150 mm at to am including mer coat with B, Karnata plying two coall surface inface free frozen and san core Circle 2 Sqm Cum	pp and 150 curing, paid hall lead ha	23.12 oil bound was iming coat was drops and mooth, cost Page No.11 6.00 2 x 4.413 8.83	at bottom ploes with two complete. ((Page Notes that the distribution of materials and the complete of the comp	MT d to 1:2:4 aced at 2 o coats of (Rate per b.43 emper of er primer gn matter s, labour, -15.49.1 6.00 1.20 o efficient 2.40	23.12 113.11 33.28 -3.60	e e	
5	vibrated R.C.C. post of size 100 x Mtr. intervals for a height of 750 m anticorrosive steel paint over a pri Mtr. is for 3 rows of G.I. pipes.) Schedule Of Rates KUWS & D Item No.III.1.18) Per Mtr of 3rows KSRB 15-14.1 : Providing and ap approved brand and shade on wa after thoroughly brooming the sur including preparing the surface ex complete as per specifications. Schedule Of Rates PWD,Myso) In side wall Celling Qty as per vide item No. 7 Deduction Rolling shutter	150 mm at to am including mer coat with B, Karnata plying two coall surface in face free frozen and san ore Circle 2 Sqm Cum	pp and 150 curing, paid hall lead ha	23.12 oil bound was iming coat was drops and mooth, cost Page No.11 6.00 2 x 4.413 8.83	at bottom ploes with two complete. ((Page Notes that the distribution of materials are the complete of the	MT d to 1:2:4 aced at 2 o coats of (Rate per co.43 demper of er primer gn matter s, labour, demper of 1.20 o efficient	23.12 113.11 33.28	e e	986593.0

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SI. No.	Description of works.	Unit	No.	Ţū.	L	В	D	Qty	Rate	Amount.
17	KSRB 15-16.1 : Providing and finishing paint of approved brand and shade surface to remove all dirt and loose foreign matter cost of materials, laborated	to give ar	even s materia	hade al, fre	after thoro	oughly broo	oming the			
	Schedule Of Rates PWD,Mysoro	e Circle 2	2016-17	(Pa	ge No.120) Item No	.15.53.1			
	Out side wall	Sqm	3.142		6.46		9.30	188.77		
	Dame	_			4.413		4.55			
	Dome	Cum	3.142		8.83		1.20	33.28		
	Slab Projection	Sqm	3.142		7.06	0.60		13.31		
	Qty as per vide item No.									
	Chejja	Sqm	1		7.65	X	1.5	11.48		
	Deduction		Co-effic	cient						
	Rolling shutter	Sqm	0.5		-1	3.00	2.40	-3.60		
	Windows	Sqm	0.5		-5	1.20	1.35	-4.05		
	Ventilators	Sqm	0.5		-5	1.20	0.45	-1.35		
		·						237.84	69.00	16411.00
	Schedule Of Rates PWD,Mysor				age No.6					
	Item No.2.10) Total qty =	220 57	±275 67	T334	1.1+195.95+	161 10±		1330.17		
	• •						E0700777:	306.16449		
	Deduct qty =		9.20*00).4ZJ	007990100	1+200.130	091991111	1636.33	407.00	007044.00
		Cum						1030.33	127.00	207814.00
19	Supplying and fixing lightening arres and grounding, aluminium strip is to GI conduit of 40 mm dia pipe suitably etc., complete.	be embed	ded in o	ne of	the column	is in an inc	dependent			
	Schedule Of Rates KUWS & DE Item No.III.1.16.4) 4) For tanks above 12 Mtr. upto 15 Mtr. Staging	3, Karnat	aka Bo	ard 2	2018-2019	(Page N	each		21341.60	21341.60
20	Providing and fixing 60x60 cms M.S of M.S. angle 50x50x6mm and M.S. and locking arrangement,painting etc.	shutters	of 31.5m	ım or	B.G.10 thic	k with hing	ges on top			
	Schedule Of Rates PRE,Mysor	e Circle 2 No.	2012-13 2	(Pa	ige No.30	Item No.4	1.9)	2.00	1787.00	3574.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
	Supplying & Fixing CI puddle flanges of in position for R.C.C. walls including ho and lift etc., complete.	_	•						
	Schedule Of Rates KUWS & DB, I Item No.III.1.14)	Karnatak	a Boai	rd 2018-2019) (Page I	No.40			
	Puddle Flanges								
	250 mm dia	Each	2				2.00	10721.76	21444.00
	Double Flanged Pipes 250 mm dia	Each	30				30.00	7666.40	229992.00
22	Supply and Delivery of resilient seated Ductile iron of grade GGG50, wedge of the valves should be of vaccum tight a 5163-89/IS 14846-2000/ DIN 3202 F sealing rings (minimum 2 "O" rings). galvanized bolts and nuts of required not seated to the seated se	fully rubbe and 100% 4/F5,. The All the v	er lined leak pro e stear alves S	with EPDM are of with face of Sealing Shooth Shall be suppli	nd Seals of the seal of the se	of NBR and s as per BS with toroidal			
	Schedule Of Rates KUWS & DB, Item No.II.2.10.1)	Karnatak	ка Воа	rd 2018-2019) (Page	No.18			
	250 mm dia	No.	2				2.00	50708.00	101416.00
	250 mm dia	No.	2				2.00	50708.00	101416.00
23	Gantry Girder along with railing & Chair	n Pulley (S	Sub esti	mate enclosed	i)				260000.00
23 a)	Earthen Embankment for approach (Su	ıb estimat	e enclo	sed)					228000.00
23 b)	Staff Quarters (Sub estimate enclosed))							698000.00
24	Miscellaneous and roundingoff								970.40
								Total	5155000.00

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G. R. Clay rate

GANTRY GIRDER along with railing & chain pulley

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Supply of 'ISMB 150' or suitable suitable to carry gantry to take corbel including painting two coand lift.	up the	load of	5 MT (the	beam w	ill be sup	ported on		1
	As per Prevailing Market Rates	S							
		Kg	3.142	6.00	14.90		280.89	70.00	19662.00
2	Supply of gantry built up beam load with 7 m span including particular with all lead and lift.								
	As per Prevailing Market Rate	s							
	Levelling Course	Kg	1	6.00	25.40		152.40	70.00	10668.00
	(6)								
3	Supply of channels of size 'ISLB length) with all lead and lift.	3 125' o	f 4 numb	ers or suita	able cha	nnel sect	ion (1.0 m		
	A D W M L 4 D 4	- 6							
	As per Prevailing Market Rate	s Kg	1	3.50	11.90		41.65	70.00	2916.00
4	Supply of 25x25 mm square bar	to suit	the 6 m	diameter w	et well v	vith all lea	ad and lift.		
	As per Prevailing Market Rate	s							
		Kg					33.00	70.00	2310.00
5	Supply of stiffner plate 8 mm or and channels, jointing of ends, girder jointing and for fixing in th	end ca	rriage ba	ase plate, e	end carri	iage end	plate, ring		
	As per Prevailing Market Rate	s							
	, to per treatming manner than	Kg					180.00	70.00	12600.00
6	Fabrication including welding, le red oxide paint with all lead and	lift.	, making	holes etc.,	comple	te with tw	vo coats of		
	As per Prevailing Market Rate	s							
		Kg					310.00	50.00	15500.00

RDW	and S Division			Mah	adevpura,	Chikkanka	ınahalli,K.sh	ettyhalli and	other 16 village
SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
7	Supply of CI wheels with ball be long shaft and with gear mech capacity with accessories with a	anisam	for ope						
	As per Prevailing Market Rate	e s Job	1				1.00	90000.00	90000.00
8	Supply of 5 MT capacity super chain.	geared i	indef m	ake chain p	oully bloct	k with 6 m	ntr lighting		
		Job	1				1.00	65000.00	65000.00
9	Transportation, errection, comm	misioning	g of con	nplete unit v	with all le	ad and lift	·		
		Job	1				1.00	40000.00	40000.00
10	Miscellaneous and roundingoff								1344.00
								Total	260000.00

Callanjath

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ಸೈ ಪ್ರಾ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

SUB ESTIMATE: EARTHEN EMBANKMENT FOR APPROACH

SI. No.	Description of works.	Unit	No.	L	B t)	Qty	Rate	Amount.
1	KSRRB M300- Construction of Emband 53. Construction of embankment with leads, transporting to site, spreading, requirement Table 300- 2 complete as murrum, watering charges & compaction	approved grading to per spe	d material (to required ecifications.(Gravel/Murrum slope and cor (which include	with all lift mpacting to s cost of gr	s and meet avel /			
	Schedule Of Rates PWD, Mysore	Circle 2	2016-17 (F	Page No.152	Item No.19	9.6)			
	Volume of fill to embankment								
	Circular Portion	Cum	3.1416	7.96	10.40		259.95		
	Straight Portion	Cum	1	118.16		3.30	389.94		
	Deduction well portion	Cum	-0.5	32.78		3.30 _	-54.08		
						_	595.81	302.00	179935.00
2	KSRRB M2500-4.1. Providing and layir including boulder apron laid dry in front Technical specifications A. Stone / Boulder	of toe of	embankme	ent complete a	s per drawin				
-	Schedule Of Rates PWD, Mysore	Circle 2	2016-17 (F	Page No.250	Item No.3	0.5)			
	Circular Portion	Cum	0.5	138.70		0.30	20.80	1	
	Straight Portion	Cum	2	22.50		0.30	13.50		
	-						34.30	1375.00	47163.00
3	Miscellaneous & rounding off								902.00
						Т	otal		228000.00

l. allougrath -

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈಪರ್ನ್ನು ಉಪ-ವಿಭಾಗ, ಶ್ರೀರಂಗಪಟ್ಟಣ

35.52

3.03

283.00

10052.00

SUB ESTIMATE: CONSTRUCTION OF STAFF QURATERS

SI. lo.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	KSRB 2-2.2 : Earthwork excavation and electrical conduits either in pits exceeding 1.5 m. in depth includin stacking the excavated soil clear breaking of clods complete as per s	or in trench g dressing f from edges	es 1.5m ar the bottom of excava	nd above in was and sides of ation with lea	idth, in hard f pits and t d upto 50	d soil not renches, m. after			
	Schedule Of Rates PWD,Myso Item No.2.4)	re Circle 20	016-17 (F	Page No. 5					
		re Circle 20	0 16-17 (F	Page No. 5	0.90	1.05	21.19		
	Item No.2.4)		·	J	0.90 0.75	1.05 0.60	21.19 1.91		
	Item No.2.4) Allround	cum	1	22.42					
	Item No.2.4) Allround Partition Wall	cum cum	1	22.42 4.25	0.75	0.60	1.91		
	Item No.2.4) Allround Partition Wall Front Steps	cum cum	1 1 1	22.42 4.25 1.30	0.75 1.05	0.60 0.15	1.91 0.20		
	Item No.2.4) Allround Partition Wall Front Steps Ramp	cum cum cum	1 1 1 2	22.42 4.25 1.30 2.65	0.75 1.05 0.60	0.60 0.15 0.15	1.91 0.20 0.48		

KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Page No.12 Item No.4.3)

cum

1

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.12 Item No.4.3)

Allround

Partition Wall	cum	1	4.25	0.75	0.15	0.48		
Plinth beam middle	cum		4.03	0.45	0.15	0.00		
Front Steps	cum	1	1.30	1.05	0.15	0.20		
Ramp	cum	2	2.65	0.60	0.15	0.48		
Columns	cum	6	1.50	1.50	0.15	2.03		
Flagging alround	cum	1	25.34	1.00	0.10	2.53		
						8.75		
Deduct for columns								
	cum	-6	0.90	1.50	0.15	-1.22		
						-1.22		
<u> </u>								
Net Qty =	cum		8.75	2	-1.22	7.53	4867.00	36648.00

22.42

0.90

0.15

Si. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
3	KSRB 4-6.1 : Providing and rem removal of form work for found including cost of all materials, lab 4.6.2	dations, footin	gs, bases	of columns	for mass	concrete			
	Schedule Of Rates PWD,Mys	ore Circle 20)16-17 (P	age No.15 l	tem No.4	.28)			
	Columns	Sqm	6	5.40		0.45	14.58 14.58	231.00	3367.00
4	KSRB 4.2.2 : Providing and laying with OPC cement @ 320kgs, v aggregates @0.878cum and flir confirming to IS9103-1999 Reaft exceeding 15 cms thick, vibrated roof slabs, staircase, lintels, reta attached plasters, columns, pier lacing courses, parapets, coping, including cost of all materials, specifications. Specification No. K	with 20mm and aggregates firmed-2008, in for all works in ining walls, respectively, about, abour, HON	d down siz @ 0.459d nachline m n foundation turn walls, pillars, po nnchor bloc	ze graded g rum, with su ixed, concrei n plinth and g walls (any t sts, struts, t ks, plain win	ranite meta perplastisis te laid in la ground floor hickness) puttresses, dow cills, fi	al coarse ser @3lts ayers not r level for including string or llets etc.,			
	Schedule Of Rates PWD,Mys	ore Circle 2	016-17 (P	age No.13					
	Columns	Cum	6	1.35	1.35	0.45	4.92 4.92	6011.00	29574.00
5	KSRB 4-6.5 : Providing and recolumns, pillars, piers, abutment including cost of all materials, lat 4.6.2	s, post and st	ruts, squar	e / rectangul	ar / polygo	n in plan			
	Schedule Of Rates PWD, Mys	sore Circle 2	016-17 (P	age No.16	item No.4	.32)			
	Columns	Sqm	6	0.92		4.40	24.29 24.29	366.00	8890.00
6	KSRB 4-6.7 :Providing and rem removal of form work for sides a bressumers and lintels not exce complete as per specificaitons. S	and soffits of beeding 1m in o	eams, bear depth inclu	n haunching ding cost of	s, cantileve	er girders,			
	Schedule Of Rates PWD,Mys	sore Circle 2	016-17 (F	age No.16	Item No.4	.34)			
	Plinth beam Middle beam Lintels Partition beam	Sqm Sqm Sqm Sqm	1 x 2 1 x 2 1 x 2 1 x 2	22.42 4.25 22.42 4.25		0.15 0.15 0.15 0.15	6.72 1.28 6.72 1.28		
	Main Beams Secondary Beams	Sqm Sqm	3 x 2 2 x 2	4.25 6.27		0.30 0.23	7.66 5.76		

SI.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
No. 7	KSRB 4.2.3 : Providing and laying			cement concr					
	OPC cement @ 240kgs, with 20mr	n and down s	size gradeo	d granite meta	l coarse ag	gregates			
	@0.878cum and fline aggregates								
	exceeding 15 cms thick, vibrated for roof slabs, staircase, lintels, retain								
	attached plasters, columns, piers								
	lacing courses, parapets, coping, I	bed blocks, a	nchor bloc	cks, plain wind	dow cills, fi	llets etc.,			
	including cost of all materials, I					•			
	specifications.(Excluding cost of s KBS 4.1, 4.6	leer labricati	on a pias	tening charges	s) Specifica	ation ino.			
	Schedule Of Rates PWD,Mysc	ore Circle 2	016-17 (F	Page No 14 I	tem No 4	12)			
а	Columns					, ,			
u	Columns	Cum	6	0.23	0.23	4.40	1.40		
			•	0.20	0.20		1.40		
b	Plinth Beam	cum	1	22.42	0.45	0.15	1.51		
	Middle	cum	1	4.25	0.45	0.15	0.29		
							1.80		
С	Lintel beam	cum	1	22.42	0.23	0.15	0.77		
	Partition wall	cum	1	4.25	0.12	0.15	0.08		
d	Beams						0.85		
ŭ	Main Beams	cum	3	4.25	0.23	0.30	0.88		
	Secondary Beams	cum	2	6.27	0.23	0.23	0.66		
	·						1.54		
	Net Quantity =						5.59	6367.00	35591.00
8	KSRB 5.2-3 : Providing and con-	structing gra	nite / trap	/ basalt size	stone ma	asonry in			
	foundation cement mortar 1:6, sto	ne hammere	d dressed	in courses no	t less than	20 cms			
	high, bond stones at two m. apart complete as per specifications. KB		se includin	g cost of mate	erials, Iabou	ır, curing			
	Schedule Of Rates PWD,Mysoltem No.5.6)	ore Circle 20	016-17 (F	Page No.25					
	Ist step	cum	1	22.42	0.75	0.45	7.57		
	2nd	cum	1	22.42	0.60	0.45	6.05		
	Partition wall	cum	1	4.25	0.60	0.45	1.15		
	Deduct for columns	cum	-6	0.23	0.23	0.90	-0.29		
							14.48	4187.00	60627.00

Si. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
9	KSRB 5.3-3 : Providing and const basement with cement mortar 1:6, e 15 cms high, bond stones at two m. curing complete as per specifications	dges of sto	nes chistle ch course ir	dressed in co	ourses not	less than			
	Schedule Of Rates PWD, Mysor	e Circle 20)16-17 (P	age No.25 I	tem No.5.	.9)			
		cum	1	22.42	0.45	0.45 (0.45)/2	4.54		
	Ramp	cum	2	2.50	0.45	0.23	0.51		
	Partition Wall	cum	1	4.25	0.45	0.45	0.86		
	Deduct for columns	cum	-6	0.23	0.23	0.45	-0.14		
							5.77	5005.00	28878.00
10	KSRB 2.3 : Filling available excavat plinth in layers not exceeding 20 ramming after watering with lead up complete as per specifications. spec	cms. in de to 50 m. an	epth, comp d lift upto	acting each	deposited	layer by			
	Schedule Of Rates PWD,Mysor Item No.2.10)	e Circle 2	016-17 (P	age No.6					
		CUM					35.52	127.00	4511.00
11	KSRB 6-2.3 : Providing and constru- modular bricks of standard size of c 1:6 for basement and superstructure curing complete as per specifications	lass designa including c	ation 50 (ta ost of mate	ble moulded) rials, labour d	with ceme	nt mortar			
	Schedule Of Rates PWD,Mysor	e Circle 2	016-17 (P	age No.29 I	tem No.6.	.6)			
	Alround	cum	1	22.42	0.23	3.30	17.02		
	Parapet wall	cum	1	22.42	0.23	0.45	2.32		
	Front Steps	cum	1	1.30	0.30	0.60	0.23		
		cum	1	1.30	0.30	0.40	0.16		
		cum	1	1.30	0.30	0.20	80.0		
							19.81		
	Deductions								
	D	cum	1	1.00	0.23	2.10	0.48		
	W	cum	1	1.50	0.23	1.20	0.41		
	W1	cum	3	0.90	0.23	1.20	0.75		
	RS	cum	1	2.40	0.23	2.40	1.32		
	Columns	cum	6	0.23	0.23	3.30	1.05		
	Lintel	cum	1	22.42	0.23	0.15	0.77		
	Main Beams	cum	2	4.25	0.23	0.30	0.59		
	Secondary beams	cum	2	6.27	0.23	0.23	0.66		
							6.03		
		Net Q	uantity =	19.81	<u></u>	6.03	13.78	6685.00	92119.00

SI. Io.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
12	KSRB 6-7.4 :Construction of partit burnt bricks of class designation labour charges, scaffolding, curing 6.2	50 with cem	ent mortar	1:4 including	cost of	materials,			
	Schedule Of Rates PWD, Myso	ore Circle 20	016-17 (P	age No.31 I	tem No.	6.26)			
		sqm	1	4.25		3.15	13.39 13.39	891.00	11930.0
13	KSRB 4-6.7 :Providing and remo removal of form work for sides an bressumers and lintels not excee complete as per specificaitons. Spe	d soffits of bo	eams, bear depth includ	n haunchings ling cost of	, cantile	er girders,			
	Schedule Of Rates PWD, Myso	ore Circle 2	016-17 (P	age No.16 I	tem No.	4.34)			
	Door	Sqm	2	1.15	0.60		1.38		
	W	Sgm	1	1.65	0.60		0.99		
	W1	Sqm	3	1.05	0.60		1.89		
	Rolling shutter	Sqm	1	2.55	0.60		1.53		
	3	•					5.79	256.00	1482.0
• •	M20 with OPC cement @ 24kgs, aggregates @0.5175cum and @0.225lts, machline mixed, well cupto ground floor level, including curing, complete as per specification No. KRS 4	fline aggreg ompacted for ost of all mat tions (Exclud	ates @ 0 r plain chejj terials, labo	size graded g 0.345cum, w a of 7.5 cms ur, HOM of n	ith supe average nachlinen	etal coarse rplastisiser thickness, y, finishing,			
•	aggregates @0.5175cum and @0.225lts, machline mixed, well cupto ground floor level, including curing, complete as per specifical charges). Specification No. KBS 4.	fline aggreg ompacted for cost of all mar tions (Exclud 1, 4.6 ore Circle 2	ates @ 0 r plain chejj terials, labo ling cost of 016-17 (P	size graded g 1.345cum, w a of 7.5 cms ur, HOM of r steel, fabric	ranite me ith supe average nachlinery ation and tem No.	etal coarse erplastisiser e thickness, y, finishing, l plastering	1 38		
	aggregates @0.5175cum and @0.225lts, machline mixed, well cupto ground floor level, including curing, complete as per specifica charges). Specification No. KBS 4. Schedule Of Rates PWD, Mys.	fline aggreg compacted for cost of all mar- tions (Exclud 1, 4.6 ore Circle 2 sqm	ates @ C r plain chejj terials, labo ling cost of 016-17 (P	size graded g 0.345cum, w a of 7.5 cms ur, HOM of n steel, fabric age No.14 I	ranite me ith supe average nachlinen ation and tem No. 0.60	etal coarse erplastisiser e thickness, y, finishing, l plastering	1.38 0.99		
14	aggregates @0.5175cum and @0.225lts, machline mixed, well cupto ground floor level, including curing, complete as per specifica charges). Specification No. KBS 4. Schedule Of Rates PWD, Mysel Door	fline aggreg ompacted for cost of all mar tions (Exclud 1, 4.6 ore Circle 2 sqm sqm	ates @ (r plain chejj terials, labo ing cost of 016-17 (P 2	size graded g 0.345cum, wa a of 7.5 cms ur, HOM of nated, fabricated, fabricated age No.14 (1) 1.15 1.65	ranite me ith supe average nachlinen ation and tem No. 0.60 0.60	etal coarse erplastisiser e thickness, y, finishing, l plastering	0.99		
	aggregates @0.5175cum and @0.225lts, machline mixed, well cupto ground floor level, including curing, complete as per specifical charges). Specification No. KBS 4. Schedule Of Rates PWD,Myson Door W W1	fline aggreg compacted for cost of all mar- tions (Exclud 1, 4.6 ore Circle 2 sqm	ates @ C r plain chejj terials, labo ling cost of 016-17 (P	size graded g 0.345cum, w a of 7.5 cms ur, HOM of n steel, fabric age No.14 I	ranite me ith supe average nachlinen ation and tem No. 0.60	etal coarse erplastisiser e thickness, y, finishing, l plastering			
	aggregates @0.5175cum and @0.225lts, machline mixed, well cupto ground floor level, including curing, complete as per specifica charges). Specification No. KBS 4. Schedule Of Rates PWD, Mysel Door	fline aggreg ompacted for cost of all mar tions (Exclud 1, 4.6 ore Circle 2 sqm sqm sqm	ates @ (r plain chejj terials, labo ling cost of 016-17 (P 2 1 3	size graded g 1.345cum, wa a of 7.5 cms ur, HOM of rasteel, fabrica age No.14 to 1.15 1.65 1.05	ranite mo ith supe average nachlinen ation and tem No. 0.60 0.60	etal coarse erplastisiser e thickness, y, finishing, l plastering	0.99 1.89	456.00	2640.0
15	aggregates @0.5175cum and @0.225lts, machline mixed, well cupto ground floor level, including curing, complete as per specifical charges). Specification No. KBS 4. Schedule Of Rates PWD,Myson Door W W1	fline aggreg ompacted for cost of all mar tions (Exclud 1, 4.6 ore Circle 2 sqm sqm sqm sqm oving centeri ace such as a n including co	ates @ (in plain chejj terials, laboraterials, laboraterials) 016-17 (Pingle 2 in grand 1 in grand	size graded g 1.345cum, w a of 7.5 cms ur, HOM of r steel, fabric 1.15 1.65 1.05 2.55 ing, strutting, floors, roofs, naterials, labo	ranite me ith super average nachlinen and tem No. 0.60 0.60 0.60 0.60 propping landings our compi	etal coarse erplastisiser e thickness, y, finishing, l plastering 4.19) g etc., and h, balconies lete as per	0.99 1.89 1.53	456.00	2640.0
	aggregates @0.5175cum and @0.225its, machline mixed, well of upto ground floor level, including of curing, complete as per specification No. KBS 4. Schedule Of Rates PWD, Mysel Door W W1 Rolling shutter KSRB 4-6.2 : Providing and remarked removal of form work for flat surface and likes, thickness upto 200 mm.	fline aggreg ompacted for cost of all mar tions (Exclud 1, 4.6 ore Circle 2 sqm sqm sqm sqm sqm oving centeri ace such as an including come BS 4.6.2 Rate	ates @ 0 r plain chejj terials, labo ling cost of 016-17 (P 2 1 3 1 ing, shutter suspended ost of all mes for cente	size graded g 1.345cum, w a of 7.5 cms ur, HOM of r steel, fabric 1.15 1.65 1.05 2.55 ing, strutting, floors, roofs, naterials, laboring height m	ranite me average average nachlinen and tem No. 0.60 0.60 0.60 0.60 propping landings our compore than 3	etal coarse prplastisiser thickness, y, finishing, plastering 4.19) g etc., and h, balconies lete as per 3.5 mtrs.	0.99 1.89 1.53	456.00	2640.0
	aggregates @0.5175cum and @0.225lts, machline mixed, well of upto ground floor level, including of curing, complete as per specifical charges). Specification No. KBS 4. Schedule Of Rates PWD, Mysel Door W W1 Rolling shutter KSRB 4-6.2: Providing and remarked removal of form work for flat surface and likes, thickness upto 200 mm specificaitons. Specification No. Kl	fline aggreg ompacted for cost of all mar tions (Exclud 1, 4.6 ore Circle 2 sqm sqm sqm sqm sqm oving centeri ace such as an including come BS 4.6.2 Rate	ates @ 0 r plain chejj terials, labo ling cost of 016-17 (P 2 1 3 1 ing, shutter suspended ost of all mes for cente	size graded g 1.345cum, w a of 7.5 cms ur, HOM of r steel, fabric 1.15 1.65 1.05 2.55 ing, strutting, floors, roofs, naterials, laboring height m	ranite me average average nachlinen and tem No. 0.60 0.60 0.60 0.60 propping landings our compore than 3	etal coarse prplastisiser thickness, y, finishing, plastering 4.19) g etc., and h, balconies lete as per 3.5 mtrs.	0.99 1.89 1.53	456.00	2640.0
	aggregates @0.5175cum and @0.225lts, machline mixed, well of upto ground floor level, including of curing, complete as per specifical charges). Specification No. KBS 4. Schedule Of Rates PWD, Myster No. WHITE Rolling shutter KSRB 4-6.2: Providing and remarked removal of form work for flat surface and likes, thickness upto 200 mm specificaitons. Specification No. Kl. Schedule Of Rates PWD, Myster Rates	fline aggreg ompacted for cost of all mark tions (Exclud 1, 4.6 ore Circle 2 sqm sqm sqm sqm sqm oving centeriace such as an including compacted in the compa	ates @ (or plain chejj terials, labo ling cost of 016-17 (P 2 1 3 1 ing, shutter suspended ost of all mes for cente	size graded g 1.345cum, w a of 7.5 cms ur, HOM of r steel, fabric age No.14 l 1.15 1.65 1.05 2.55 ing, strutting, floors, roofs, raterials, laboring height m	ranite me average average nachlinen nach nach nach nach nach nach nach nac	etal coarse prplastisiser thickness, y, finishing, plastering 4.19) g etc., and h, balconies lete as per 3.5 mtrs.	0.99 1.89 1.53 5.79	456.00 550.00	
15	aggregates @0.5175cum and @0.225lts, machline mixed, well of upto ground floor level, including of curing, complete as per specifical charges). Specification No. KBS 4. Schedule Of Rates PWD, Myster No. WHITE Rolling shutter KSRB 4-6.2: Providing and remarked removal of form work for flat surface and likes, thickness upto 200 mm specificaitons. Specification No. Kl. Schedule Of Rates PWD, Myster Rates	fline aggreg ompacted for cost of all mar tions (Exclud 1, 4.6 ore Circle 2 sqm sqm sqm sqm oving centeri ace such as an including compacted in the compacted	ates @ (or plain chejj terials, labo ling cost of 016-17 (P 2 1 3 1 ing, shutter suspended ost of all mes for cente 1016-17 (F 1	size graded go.345cum, wa of 7.5 cms ur, HOM of risteel, fabrica age No.14 In 1.15 1.65 1.05 2.55 ing, strutting, floors, roofs, naterials, laboring height more cost of sing strutting floors age No.15 6.50 ing, strutting floors of sing sing sing sing sing sing sing sing	ranite me average average nachlinen	etal coarse explastisiser thickness, y, finishing, plastering 4.19) g etc., and h, balconies lete as per 3.5 mtrs. 4.29.2)	0.99 1.89 1.53 5.79		
	aggregates @0.5175cum and @0.225lts, machline mixed, well of upto ground floor level, including of curing, complete as per specification No. KBS 4. Schedule Of Rates PWD, Myst Door W W1 Rolling shutter KSRB 4-6.2 : Providing and rem removal of form work for flat surfand likes, thickness upto 200 mm specifications. Specification No. KBS Schedule Of Rates PWD, Myst Roof Slab KSRB 4-6.9 : Providing and remedges of slabs and breaks in feedges of slabs and breaks	fline aggreg ompacted for cost of all mar tions (Exclud 1, 4.6 ore Circle 2 sqm sqm sqm sqm oving centeri ace such as an including compacted in the compacted	ates @ (or plain chejj terials, labo ling cost of 016-17 (P 2 1 3 1 ing, shutter suspended ost of all mes for cente 1 1 ing, shutter linth includi KBS 4.6.2	size graded go.345cum, wa of 7.5 cms ur, HOM of rosteel, fabrica age No.14 losteel, fabrica 1.15 1.65 1.05 2.55 ling, strutting, floors, roofs, naterials, laboring height more eage No.15 6.50 ling, strutting floors of sing cost of sing strutting ing cost of sing co	ranite me average average nachlinen	etal coarse explastisiser thickness, y, finishing, plastering 4.19) g etc., and h, balconies lete as per 3.5 mtrs. 4.29.2)	0.99 1.89 1.53 5.79		2640.0 15196.0
15	aggregates @0.5175cum and @0.225lts, machline mixed, well of upto ground floor level, including of curing, complete as per specifical charges). Specification No. KBS 4. Schedule Of Rates PWD, Myster Door W W1 Rolling shutter KSRB 4-6.2: Providing and remarked removal of form work for flat surfacted likes, thickness upto 200 mm specifications. Specification No. KBS Schedule Of Rates PWD, Myster Roof Slab KSRB 4-6.9: Providing and remarked ges of slabs and breaks in form the complete as per specification. Specification. Specification Specification of Rates PWD, Myster Roof Slab PWD, Myster Roof Slabs and breaks in form the period of Rates PWD, Myster Roof Slabs and Breaks in form the period of Rates PWD, Myster Roof Schedule PWD, Myster Roof Schedule PWD, Myster Roof Schedul	fline aggreg ompacted for cost of all mar tions (Exclud 1, 4.6 ore Circle 2 sqm sqm sqm sqm oving centeri ace such as an including compacted in the compacted	ates @ (or plain chejj terials, labo ling cost of 016-17 (P 2 1 3 1 ing, shutter suspended ost of all mes for cente 1 1 ing, shutter linth includi KBS 4.6.2	size graded go.345cum, wa of 7.5 cms ur, HOM of rosteel, fabrica age No.14 losteel, fabrica 1.15 1.65 1.05 2.55 ling, strutting, floors, roofs, naterials, laboring height more eage No.15 6.50 ling, strutting floors of sing cost of sing strutting ing cost of sing co	ranite me average average nachlinen	etal coarse explastisiser thickness, y, finishing, plastering 4.19) g etc., and h, balconies lete as per 3.5 mtrs. 4.29.2)	0.99 1.89 1.53 5.79		

SI. No.	Description of works.	Unit	No.	L.	В	D	Qty	Rate	Amount.
17	KSRB 4.2.3 : Providing and laying in OPC cement @ 240kgs, with 20mm @0.878cum and fline aggregates @ exceeding 15 cms thick, vibrated for roof slabs, staircase, lintels, retaining attached plasters, columns, piers, lacing courses, parapets, coping, be including cost of all materials, lat specifications.(Excluding cost of steroid KBS 4.1, 4.6	and down 0.459cur all works ng walls, r abutments ed blocks, bour, HO	a size graded m, machline in foundation return walls, s, pillars, po anchor bloc M of machl	granite met mixed, conc n plinth and walls (any sts, struts, ks, plain wi inery, curin	al coarse ag rete laid in l ground floo thickness) buttresses, ndow cills, f g, complete	ggregates layers not or level for including string or illets etc., e as per			
	Schedule Of Rates PWD, Mysor	e Circle	2016-17 (P	age No.14	Item No.4	.12)			
	Roof Slab	cum	1	6.96	4.71	0.15	4.92 4.92	6367.00	31325.00
18	Providing and fabricating TMT rei hooking, lapping and / or welding binding wire of approved quality and the adjoining members wherever ne as per design specification and direct	wherever I guage in cessary in	r required,plancluding cost actuding cost actuding all la	acing in poor of binding variance	sition and to vire and and stages ect.,	tying with choring to complete			
	Schedule Of Rates PRE,Mysore 2.11)	e Circle 2	2012-13 (Pa	age No.VIII	Item No.7	' 9 &			
	Column Footing	Kgs	4.92Cum	1	@ 80.00 kg/	/cum	393.600		
	Columns	Kgs	1.40Cum		@ 120.00 k		168.000		
	Plinth Beam	Kgs	1.80Cum		@ 80.00 kg/		144.000		
	Lintel	Kgs	0.85Cum		@ 80.00 kg/		68.000		
	Chejja	Kgs	0.43Cum		@ 80.00 kg/		34.740		
	Beams	Kgs	1.54Cum		@ 120.00 kg	_	184.800		
	Roof	Kgs	4.92Cum	ı	@ 120.00 kį	g/cum	590.400 1583.54 OR		
							1.58 MT	56697.50	89782.00
19	KSRB 7.5 : Providing and fixing pull 18 guage, 75mm wide cold rolled s bottom rail, with interlocking arran suspension shaft with High tension designed pipe shaft, with bracket pinside & outside locking with push & handles with all fittings and access cover) cost of materials, labour, HO size 3mx2.8 m Specification No. KB:	steel laths gements coil type plates, gu pull opera pries, pair M of macl	of convex of for steel lat springs two ide channels ations completed with a continuous	corrugation, hs by mean numbers, on s, ball bearing ete including oat of red le	with side grass of alternation on the mounted on arranger pulling hoosed paint (w	uides and late clips, specially ments, for oks, 4Nos.			
	Schedule Of Rates PWD,Mysor	re Circle	2016-17 (F	age No.34	Item No.7	7.5)			
	RS	Sqm	1	2.40		2.400	5.76		
							5.76	2862.00	16485.00

-	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
20	KSRB 7.6 : Providing and fixing top push rolling shutters bent to shap materials, labour, HOM of machline 7.10.6 / 7.12	e including	cost of red	lead primer	coat of	painting ,			
	Schedule Of Rates PWD,Myso	re Circle 20	016-17 (Pa	age No.35 It	em No.7	7.6)			
	RS	Rmt	1	2.70			2.70		
							2.70	473.00	1277.00
21	KSRB 9.4-3 : Providing Mathi / Na ventilators and other frames, wroug (excluding cost of cement concre labour, HOM of machlineries compl	tht, framed or ete and side	r assembled clamps),	l including ma but including	king plas cost of	ter groves materials,			
	Schedule Of Rates PWD,Myso	ore Circle 2	016-17 (Pa	age No.54 It	em No.9).12)			
	D	Cum	2	6.50	0.100	0.075	0.10		
							0.10	80792.00	8079.00
22	KSRB 9.5-3 : Providing and fixing doors, styles and rails of 40mm. to styles 100mm wide as per drawing labour, HOM of machlineries comes Specification No. KBS 9.34	hick with bot g and panels	tom and loc s of 25mm	k rails 180mr thick including	n wide to cost of	p rail and materials,			
	Schedule Of Rates PWD, Myso	ore Circle 2	016-17 (P	age No.54 It	em No.9	9.16)			
	D	sqm	2	0.90		2.10	3.78		
							3.78	2005.00	44026.00
							3.70	3925.00	14836.00
23	KSRB 7.7 : Providing and fixing in and ventilators side hung/top hung of 25x33x3mm, weighing 1.419 K section of size 25x46x3mm. wei weighing 0.839 kg/m for glazing of and fixing 4mm. thick reeded gl sections should confirm to I.S 74	fully openabg/m both for ghing 2.28K windows not ass with teats:1990, 4r	ole as per ap outer and it g/m duly p more than it likwood bea nos. of hold	oproved drawinner frames a roviding T so 34 cms. c to c ding of requ lfasts of appi	ngs using and centrection 19 including ired size oved size	g Z angles ral mullion ex19x3mm g providing , all steel e, section	3.70	3925.00	14636.00
23	and ventilators side hung/top hung of 25x33x3mm, weighing 1.419 K section of size 25x46x3mm. wei weighing 0.839 kg/m for glazing of and fixing 4mm. thick reeded gl	fully openab g/m both for ghing 2.28K windows not ass with tea 452:1990, 4r and electrically ames electrical ith one coat ved colour an	outer and in g/m duly p more than a kwood bear nos. of hold or grinded su ally. All the of anti-corred make incode	oproved drawinner frames a roviding T so 34 cms. c to colding of requilifasts of approbability of approbability of the steel surface on the posive paint an luding cost of	ngs using and centre ection 19 including ired size oved size	g Z angles ral mullion px19x3mm providing , all steel e, section it shall be thoroughly g with two s, fixtures,	3.70	3925.00	14630.00
23	and ventilators side hung/top hung of 25x33x3mm, weighing 1.419 K section of size 25x46x3mm. wei weighing 0.839 kg/m for glazing of and fixing 4mm. thick reeded gl sections should confirm to I.S 74 should be cut to length welded ar tenonned and revetted into the fraceleaned free of rust and painted w coats of ready mix paint of approvabour and HOM of machlinery cor	fully openabg/m both for ghing 2.28K windows not ass with tea 452:1990, 4r and electrically mes electricatith one coat red colour annplete as per	outer and in g/m duly p more than a kwood bear nos. of hold or grinded su ally. All the of anti-corre and make incorre	oproved drawinner frames a roviding T so 34 cms. c to colding of requilifasts of approbability of approbability of the steel surface on the point and luding cost of the surface on the surface of the su	ngs using and centre ection 19 including ired size oved size es of un shall be difficult from the first from th	g Z angles ral mullion 0x19x3mm providing , all steel e, section it shall be thoroughly g with two s, fixtures, ESS 7.12.1	3.70	3925.00	14630.00
23	and ventilators side hung/top hung of 25x33x3mm, weighing 1.419 K section of size 25x46x3mm. wei weighing 0.839 kg/m for glazing of and fixing 4mm. thick reeded gl sections should confirm to I.S 74 should be cut to length welded ar tenonned and revetted into the fraceleaned free of rust and painted w coats of ready mix paint of approviational and HOM of machlinery cor / 7.12.2 / 7.12.3 / 7.12	fully openabg/m both for ghing 2.28K windows not ass with tea 452:1990, 4r and electrically mes electricatith one coat red colour annplete as per	outer and in g/m duly p more than a kwood bear nos. of hold or grinded su ally. All the of anti-corre and make incorre	oproved drawinner frames a roviding T so 34 cms. c to colding of requilifasts of approbability of approbability of the steel surface on the point and luding cost of the surface on the surface of the su	ngs using and centre ection 19 including ired size oved size es of un shall be difficult from the first from the first from No. K	g Z angles ral mullion 0x19x3mm providing , all steel e, section it shall be thoroughly g with two s, fixtures, ESS 7.12.1	1.80 3.24	3925.00	14630.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
24	KSRB15-3-13: Providing 12mm to ceiling including rounding off of and removing scaffolding, include specifications.	corners wher	ever require	ed smooth rer	ndering, :	Providing			
	Schedule Of Rates PWD,Mys	ore Circle 2	2016-17 (F	age No.116	Item No	.15.21)			
	Pump room	sqm	1	4.39	4.25		18.64		
	Room	sqm	1	2.00	4.25		8.50		
	Beam sides	sqm	1 x 2	4.25		0.30	2.56		
	bodin oldos	oqiii	7.7.2	1125		0.00	29.70	193.00	5732.0
25	KSRB15-3.3 : Providing 12mm thi brick masonry including roundir Providing and removing scaffoldir per specifications.	ng off corne	ers whereve	r required s	mooth re	endering, :			
	Schedule Of Rates PWD, Mys	ore Circle	2016-17 (F	age No.115	Item No	0.15.11)			
	For Inside Walls								
	Pump room	sqm	1	17.27		3.30	56.99		
	Room	sqm	1	12.50		3.30	41.25		
							98.24		
	Deductions								
	D	sqm	-1	1.00		2.10	-2.10		
	W	sqm	-1	1.50		1.20	-1.80		
	W1	sqm	-3	0.90		1.20	-3.24		
	RS	sqm	-1	2.40		2.40	-5.76		
		•					85.34	150.00	12801.0
26	KSRB15-7: Providing lime rend materials, labour, curing complete		_	vall and ceilin	g, includi	ing cost of			
	Schedule Of Rates PWD,Mys	ore Circle	2016-17 (F	Page No.124	Item No	o.15.33)			
	Ceiling	sqm	Quantity v	ide Item No. 2	4		29.70		
	Inside Walls	sqm	Quantity v	ide Item No. 2	5		85.34		
							115.04	25.00	2876.0
27	KSRB15-3.9 :Providing 18mm thi brick masonry including roundi Providing and removing scaffoldi per specifications.	ng off come	ers whereve	er required s	mooth re	endering, :			
	Schedule Of Rates PWD,Mys Out Side Walls	sore Circle	2016-17 (Page No.116	item No	o.15.17)			
	Qty as per item No.14	sqm		1.50	X	5.79	8.69		
	• •	sqm	1	23.34		3.45	80.52		
	Airouna	sqm	1	22.42		1.13	25.33		
	Alround Parapet		•			****	114.54		
	Parapet	oqiii							
		oqiii							
	Parapet	sqm	-1	1.00		2.10	-2.10		
	Parapet Deduction	·	-1 -1	1.00 1.50		2.10 1.20			
	Parapet Deduction D	sqm					-2.10		
	Parapet Deduction D W	sqm sqm	-1	1.50		1.20	-2.10 -1.80		

0.	Description of works. Unit No.	L	В	D	Qty	Rate	Amount.
28	KSRB 14.9-2: Providing and laying M-15 cement concrete metallic concrete hardner topping, under layer of 45mm thick broken granite metal of 20mm and down size and top layer of hardner consisting of mix 1:2 (1 cement hardner mix: 2 granit by volume, with metalic hardening compound of approved quapart of cement = 1 part of metallic floor hardening compound including finishing, cost of materials, labour, curing, compound Specification No. KBS 14.4	M-15 cem 15mm this e metal 10 ality mix in of approv	nent con ick meta Omm no the ration	crete using allic cement minal size) o of 4:1 (4 ity by wt) ,			
	Schedule Of Rates PWD, Mysore Circle 2016-17 (Page	No.104	Item N	o.14.14)			
	Pump room sqm 1	4.39	4.250		18.64 18.64	673.00	12544.0
29	KSRB 14.7-3: Providing and laying flooring 40 mm thick, with M-15 cement concrete, using broken granite metal of 12.5mm 10mm thick plaster with cement mortar 1:3, finished with floincluding cost of materials, labour, curing, complete as per sp KBS 14.3	nominal soating coa	ize and at of nea	top layer of at cement,			
	Schedule Of Rates PWD, Mysore Circle 2016-17 (Page	No.104	Item N	o.14.10)			
	Room sqm 1	2.00	4.250		8.50 8.50	517.00	4394.0
30	KSRB 10-3: Providing and laying integral cement based water preparation of surfaces as required application. (a) Applying neat cement using 2.75 kg/sqm of cement admixed with second of the second of	and groun	ting a sl	urry coat of ter proofing			
	compound conforming to IS:2645 over the RCC slab after treatment. (b) Laying cement concrete using broken brick ba 50% of cement mortar 1:5 admixed with proprietary water proprietary water processes over 20mm thick layer of cement mortar 1:5 admixed with proprietary water processes over 20mm thick layer of cement mortar 1:5 admixed with compound to required slope and treating similarly the adjoin including rounding off junctions of walls and slabs. (c) After applying a second coat of cement slurry admixed with proprietary water proofing compound and finally finishing the cement slurry and making of 300x300mm square. (e) The whole flooded with water for a minimum period of two weeks for currect of materials, labour complete as per specifications.	ts 25mm to cooling country walls are two day tary water cortar of me surface vote terrace	to 100mmpound ietary was upto 30 ys of pro- proofing nix 1:4 a with trow	am size with conforming later proofing omm height oper curing, g compound dmixed with wel and neat hed shall be			
	treatment. (b) Laying cement concrete using broken brick ba 50% of cement mortar 1:5 admixed with proprietary water proprietary water proprietary and the state of compound to required slope and treating similarly the adjoint including rounding off junctions of walls and slabs. (c) After applying a second coat of cement slurry admixed with proprietary water proofing compound and finally finishing the cement slurry and making of 300x300mm square. (e) The whole flooded with water for a minimum period of two weeks for cure	ts 25mm to roofing col- with propri- ing walls or two day tary water ortar of m surface vole terrace ring and fo	to 100m mpound ietary wa upto 30 ys of pro- proofing nix 1:4 a with trow e so finisi or final te	am size with conforming ater proofing 0mm height oper curing, g compound dmixed with wel and neat hed shall be est including			
	treatment. (b) Laying cement concrete using broken brick ba 50% of cement mortar 1:5 admixed with proprietary water proprietary water proprietary and the state of compound to required slope and treating similarly the adjoint including rounding off junctions of walls and slabs. (c) After applying a second coat of cement slurry admixed with proprietary water proofing compound and finally finishing the cement slurry and making of 300x300mm square. (e) The whole flooded with water for a minimum period of two weeks for cure cost of materials, labour complete as per specifications.	ts 25mm to roofing col- with propri- ing walls or two day tary water ortar of m surface vole terrace ring and fo	to 100m mpound ietary wa upto 30 ys of pro- proofing nix 1:4 a with trow e so finisi or final te	am size with conforming later proofing omm height oper curing, g compound dmixed with wel and neat hed shall be lest including	27.63 27.63	904.00	24977.0
31	treatment. (b) Laying cement concrete using broken brick ba 50% of cement mortar 1:5 admixed with proprietary water pr IS:2645 over 20mm thick layer of cement mortar 1:5 admixed compound to required slope and treating similarly the adjoin including rounding off junctions of walls and slabs. (c) After applying a second coat of cement slurry admixed with proprie (d) Finishing the surface with 20mm thick jointless cement meaning proprietary water proofing compound and finally finishing the cement slurry and making of 300x300mm square. (e) The whole flooded with water for a minimum period of two weeks for currect of materials, labour complete as per specifications. Schedule Of Rates PWD, Mysore Circle 2016-17 (Pageston)	ts 25mm to cofing colowith proprising walls for two daystary water fortar of measurface wole terrace ring and for 6.50 bound was good with the control of t	to 100m mpound ietary wa upto 30 ys of pro proofing ix 1:4 a with trow so finision final te 4.25 shable of ith diste other fo	am size with conforming ater proofing 0mm height oper curing, g compound dmixed with wel and neat hed shall be est including		904.00	24977.
31	treatment. (b) Laying cement concrete using broken brick ba 50% of cement mortar 1:5 admixed with proprietary water proprietary water proprietary and the surface of cement mortar 1:5 admixed of compound to required slope and treating similarly the adjoint including rounding off junctions of walls and slabs. (c) After applying a second coat of cement slurry admixed with propried (d) Finishing the surface with 20mm thick jointless cement may proprietary water proofing compound and finally finishing the cement slurry and making of 300x300mm square. (e) The whole flooded with water for a minimum period of two weeks for currect of materials, labour complete as per specifications. Schedule Of Rates PWD, Mysore Circle 2016-17 (Page Sqm 1 KSRB 15-14.1: Providing and applying two coats with oil approved brand and shade on wall surface including priming after thoroughly brooming the surface free from mortar drincluding preparing the surface even and sand paper smooth.	ts 25mm to coofing colowith proprising walls are two daystary water cortar of measurface wole terrace ing and for 6.50 and cost with cost of the cost	to 100m mpound ietary wa upto 30 ys of pro proofing iix 1:4 a with trow so finisi or final to 4.25 shable of ith diste other fo of mate	am size with conforming later proofing Omm height oper curing, g compound dmixed with well and neathed shall be est including to 10.2) distemper of mper primer reign matter rials, labour,		904.00	24977.0
31	treatment. (b) Laying cement concrete using broken brick ba 50% of cement mortar 1:5 admixed with proprietary water pr IS:2645 over 20mm thick layer of cement mortar 1:5 admixed of compound to required slope and treating similarly the adjoin including rounding off junctions of walls and slabs. (c) After applying a second coat of cement slurry admixed with proprie (d) Finishing the surface with 20mm thick jointless cement must proprietary water proofing compound and finally finishing the cement slurry and making of 300x300mm square. (e) The whole flooded with water for a minimum period of two weeks for curt cost of materials, labour complete as per specifications. Schedule Of Rates PWD, Mysore Circle 2016-17 (Page Sqm 1 KSRB 15-14.1 : Providing and applying two coats with oil approved brand and shade on wall surface including priminal after thoroughly brooming the surface free from mortar draincluding preparing the surface even and sand paper smootomplete as per specifications.	ts 25mm to coofing colowith proprising walls are two daystary water contain of me surface wole terrace ing and for 6.50 bound was good with cost of the cost of t	to 100m mpound ietary wa upto 30 ys of pro proofing iix 1:4 a with trow so finision final to 4.25 shable of ith diste other fo of mate	am size with conforming later proofing Omm height oper curing, g compound dmixed with well and neathed shall be est including to 10.2) distemper of mper primer reign matter rials, labour,		904.00	24977.0

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
32	KSRB 15-16.1 : Providing and finish paint of approved brand and shade surface to remove all dirt and loose foreign matter cost of materials, labor	to give an powdered	even sha material,	de after thore free from mo	oughly	brooming the			
	Schedule Of Rates PWD,Mysore	e Circle 20	016-17 (F	Page No.120) Item	No.15.53.1			
	Quantity vide item NO.27	Sqm					101.64 101.64	69.00	7013.00
33	KSRB 15.1.3 -do- Providing ruled p 1:3, 20mm deep, after raking joint materials, labour, curing complete as	s to depth	of 20mn						
	Schedule Of Rates PWD, Mysore	e Circle 20	016-17 (F	Page No.115	Item	No.15.3)			
		Sqm	1	23.34		0.450	10.50 10.50	98.00	1029.00
34	KSRB 8.6-3 : Providing and fixing or 75mm dia including filling the joints necessary specials like shoes, bends including cost of materials, labour, c KBS 8.27, 8.28	with spun and offse	yarn soak ts fixed wit	ed in neat ce h iron clamps	ement s s, wall p	slurry 1:2 with blugs, screws,			
	Schedule Of Rates PWD, Mysore	e Circle 2	016-17 (F	Page No.50	item N	lo.8.14)			
		Rmt	2	4.18			8.36 8.36	409.00	3419.00
35	KSRB 15-17.6 : Providing and applyi wood surface and / or wood based cleaning the surface of all dirt, dus materials, labour, complete as per sp	d surface t and forei	with enam gn matter,	el paint to g	ive an	even shade,			
	Schedule Of Rates PWD, Mysoro	e Circle 2	016-17 (F	Page No.12	l Item	No.15.60.1			
) D	Sqm	2.25	1	1.00	2.10	4.73 4.73	84.00	397.00
									634457.00
36	Providing Electrical services.			At	5%	of civil works			31723.00
37	Providing Sanitary services.			At	5%	of civil works			31723.00
38	Miscellaneous such as fixtures to do	ors & windo	ows etc.,						97.00
	G. a. Slaminath	gu	w	m/		Te	otal =		698000.00

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜ ಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

Koushik Consultant

3. RAW WATER PUMPING MACHINERY FROM PROPOSED JACK WELL TO WTP

Sr. No		UNIT	QTY	RATE	AMOUNT
1	Vertical Turbine Pump set Supplying at site of work erection and commission of Vertical turbine Pump set Jyothi / Kirloskar / Flow more / Mather & platt / Aqua /Worthington or any other make confirming to IS standard of pull out type with Pump and Motor Mounted on the single shaft, fitted with Mechanical seal (Double mechanical seal should be fitted. • Primary (Inboard) : Silicon Carbide v/s Silicon Carbide or Tungsten Carbide v/s Tungsten Carbide • Secondary (Outboard) : Carbon v/s Cast Chrome Molybdenum Steel or Silicon Carbide or Tungsten Carbide), Ball Bearing (Ball / Roller / Thrust life time lubricated Anti Friction type with life time of grease filled with life cycle of 70,000 hrs. Motor Specification:—The motor shall be of Squirrel Cage, Induction type, Air Filled yet capable of Water Immersion upto 20mwc for S1 duty. Its winding should be of Class F "H" insulation with standing capacity up to 185°C respectively. It should be wound using Dual Coated, Super Enamelled; Copper wire with high temperature index as per I.S. 4800 Part-13. Motor and pump should be IP 68 protection. MOC of Material (Impeller CF 8M, Shaft SS 316, Other Parts will be cast iron of FG 260 grade) material capable of discharging 321.788 Cum /hr fixed on I section girders for erecting pumps Duty conditions (i) Discharge of any pump when working should give a discharge of 34.722 Ips (ii) Head due to all causes when working parallel and should give a combined				
4	Pressure guage: Supply and delivery at site Almaster/Gurusors/Forbes Marshal/Wika make gycerence filled stainless steel pressure gauge of 150mm dia suitable for the above pumpset with nipple and two way cock tubing sutaible mounting on the delivery of pump (Market Rate)	Nos	2.00	2100000.00	4200000.00
5	PUMPING HEADER: Manufacturing, Providing, transporting, rolling, lowering, laying and jointing, testing, commissioning of ERW (Elastic Resistant Welded) /SAW (Submerged arc Welded) MS pipes (Fe410 grade) confirming to IS 3589-2001 with latest amendments including perfect linking and welding of joints to correct position including cost and conveying of pipes and materials with all lead and lift, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendmensts fot test pressure and working pressure both as factory and site etc. complete as per detailed specifications. with inside lining of two coats of food grade epoxy painting of approved make with each coat of 250micron, thick(after dry) over one coat of food grade epoxy primer of approved make with minimum of 50micron thick (after dry) and out side 25 mm thick coating in CM 1:3 by providing 50x50 welded mesh including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. (Contractor has to		2.00	2000.00	4000.00
	make his own arrangement of procuring water for testing) KUWS & DB SR 2013-14 P. No.69 I. No.1.6 RAte without ED DI Pipe K-9,Class 150 mm dia	Mts	40.00	1686.72	67468.80

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Sr. No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		UNII	QII	RATE	AMOUNT
	COMBINED METER AND CONTROL PANEL BOARD UNIT 1) INDOOR TYPE PANEL BOARD: Supply and delivery at site brand new best indegeneous make floor mounting, free standing cubicle type control panel board unit suitable for operations on three phase 50 cycles 380/440 volts AC supply fitted with the following.				
	Drawout type panel mounting manual operated trip free operating mechanism sheet steel clad 400 amps 25 MVA oil circuit breaker with fixed and moving contacts fitted with:				
	1 No. under voltage release. 3 Nos over load trips calibrated 100% to 200% shunted by time limit fuses. 3 Nos of current transformers of suitable ratio, burden and class of accuracy. 1 No. neutral link. 1 set of compression glands for PVC cables.				
	1 No.earth leakage trip coil calibrated 50 to 100% or 1No earth leakage relay. Other required fittings and first fillings of oil make MEI/EASSEN/Siemens/Raas make. 1 No.dual parameter to read both amps/volts panel mounting version digital type				
	Ammeter/Voltmeter for suitable C.T. ratio with builtin selector switch of ENERCON make (0 to 500 volts of class 0.5) 1No. of MS air insulator Bus bar chamber of 4 nos 300 Amps 25 MVA oil insulated bus bar made of high conductivity, high strength aluminium alloy complying with the requirements of grade E91,E of IS 5082 suitably braced with non-hygroscopic SMS supports provisions shall be made in the bus bar chamber for one incoming				
	and three out going feeder. 1No 350 heavy duty triple pole change over fuse switch comprising of two switches mounting on common chasis complete with handle assembly door interlock and pad locking with mechanical linkage shorting links and 200 Amps capacity HRC fuses in sheet metal enclosure confirming to the latest ISS 4064 controls and switches gear/L&T/HPL/CGL/BCH make1No 400 heavy duty triple pole change				
	over fuse switch comprising of two switches mounting on common chasis complete with handle assembly door interlock and pad locking with mechanical linkage shorting links and 350 Amps capacity HRC fuses in sheet metal enclosure confirming to the latest ISS 4064 controls and switches gear/L&T/HPL/CGL/BCH make.1No suitably sealed KWH meter with maximum demand indicator LMP				
	fuses in sheet metal enclosure confirming to the latest ISS 4064 for capacitor circuit of C&S/CGL/L&T/BCH/Siemens make. 1No 32 Amps DP load break heavy duty switch fuse unit with Re wireable fuses in sheet metal enclosure comprising to the latest ISS 4064 for lighting circuit Siemens/L&T/BCH/GE/Control and switch gear make.		rs.		
8	1 set of cable entries and terminals to suitable for numbers type and size of aluminium conductor power cables etc. (Market Rate) .AUTO TRANSFORMER STARTERS:-Supply and delivery at site brand new best indegeneous make totally enclosed sheetsteel clad, dust set and vermine proof free standing floor mounting fully automatic auto transformer starter suitable for operations on 3 ph 50 HZ 380/440 volts AC supply fitted with the following. 3 nos 415v 450/300/300 Amps suitably rated oil break motor duty contractors for	Each	2.00	350000.00	70000.00
	main transformers and neutral conforming to the latest ISS 2959/IEC 158-1 OF MEI/BCH/L&T/GE/SIEMENS make. 3No current transformers for suitable ratio, burden and class of accuracy confirming to the latest ISS 2705 with 15 VA output for protection(10P10) and				
	metering. 1No 0.5 to 60 seconds pneumatic ON and OFF delay timer for automatic change over from reduced voltage to full voltage of BCH/GE/SIEMENS Make. 1 set start-stop push button confirming to the latest ISS 6875 of L&T/BCH/GE/SIEMENS/Raas make. 1 No motor "ON" indicating lamp of L&T/BCH/GE/SIEMENS/Raas make.				
	1 No dial parameter to measure volts/amps panel mounting version digital type voltmeter /ammeter for suitable CT ratio with built in selector switch of ENERCON make of class 0.5. 1 No thermostat for protection of autotransformer of excessive heating.				
	1No C.T. operated thermal over load relay of L&T/BCH/GE/SIEMENS/Raas make. 1No control transformer of ratio 415/230 volts, single phase 50 HZ 800 VA burden air cooled class-1 of C&S make. 1No single phase preventer of minilec/prokedevy's make.				

Sr. No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	1No under/over voltage rellay of prokedevy's/EE make with built in P.T's for each phase.				
	1 set indicating lamp RED GREEN AND AMBER LAMP of rating 230 volts AC of L&T/BCH/GE/SIEMENS/Raas make. 1 No alarm bell suitable for 230v,AC,50 HZ.				
	1No cable box with compression type cable glands for INCOMING. 1No cable box with compression type cable glands for OUTGOING				
	1 no. earth leakage relay with core balanced CT of prokedavy's make. 1 Set of control terminals and power terminals.				
	1 No oil immersed naturally oil cooled auto transformer starter for motor starting duty with 50%,60% and 80% tappings and regulations 10% seperate sheet metal enclosure with first filling of oil. (Market Rate)	Each	2.00	385000.00	770000.00
-	CABLES: Supplying and laying LT UG cables having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheating				
	1.1 KV class class A cables. SR Electrical works PWD 2013-14 Pg-67 Item-10-g3.5 core 95 sommLabour charges for laying of 1.1 KV class UG cable when supplied agency in	Rmt	200.00	531.00	106200.00
	existing trench GI pipe / stoneware pipe / on wall / on pole as required. SR Electrical works PWD 2010-11 Pg-68 Item-11-b Digging of trench of 0.6m deep $ x = 0.50 \text{mtr} $ wide refiling the trench to the required	Rmt	150.00	14.00	2100.00
	ground level and consolidating etc., complete (As per Civil SR KSRB I-2, P-7) a. In				
iv	soil (Hard) SR Electrical works PWD 2010-11 Pg-68 Item-12 Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150mm alround the cable .SR Electrical works PWD 2007-08 Pg-69 Item-	Rmt	150.00	50.00	7500.00
v	13 a) Connection of Motor: 3 core 95 mm2 in parallel for the connection of motor to starters panel board IS 1554(PART-1)1998. SR Electrical works PWD 2011-12 Pg-	Rmt	150.00	66.00	9900.00
	67 Item-10-e3.5 core 25 sqmm -rate for cable Rs.215+Labour charges for laying Rs.18	Rmt	50.00	226.00	11300.00
	KVAR POWER SHUNT CAPACITOR: KVAR POWER SHUNT CAPACITOR:-				
	Supply and delivering at site brand new NGEF/SHAKTI/BAJAJ/CHITANYA/MAKE Low loss high efficient 8 KVAR or power shunt capacitor bank confirming to ISS	į			
	2834/suitable for operation on 3 phase 380/440 volts AC supply required for maintaining the power factor of the installation at not less than 0.95 lagging.			4	
	25 KVAR (Market Rate)	Each	1.00	98000.00	98000.00
22	Supplying delivery and errection at site brand new Dorot/Bermad/ Erthard mak 80 mm dia with maximum permissible pressure 18 Kg/cm2 with the following specification.				
	Valve should have direct sealing diaphragm Activated by line pressure and controled by 2 way diaphragm operated adjustable pilot valve.				
	Dorot valve should be installed on a tee junction. Which should modulate automatically to maintain preset inlet pressure and relieve the excess pressure out of the network.		-		190
	Material construction; 1. Body & Bonet- Ductile Iron ISO 1083 Grade 450-10 2. Diaphragm- Natural rubber (N.R) (Standerd)				
	3. Spring-SST 302 4. Pilot valve- Brass ISO 426				
	5. Coating - Electrically applied, oven backed polyster 6. End connection- Flanges BS-IS	Each	1.00	110000.00	110000.00
23	Tool. Kit: Supply and delivery at site best make or Taparia make and other required make tool sets for operation and maintenance of the above pumpsets		1.00	10000 00	10000
	comprising of the following a. Double end spanner 1/4" - 1 Set b. Screw driver insulated 11" - 1 No	Each	1.00	12000.00	12000.00
	c. Screw drive insulated 8" - 1 No. d. Cutting pullar insulated 8" - 1 No. e. Hammer with handle 1 Kg - 1 No.				
	f. Pipe wrench 18 " - 1 No. g. Pipe wrench 24 " - 1 No.				İ
	h. Pipe wrench 12 " - 1 No. i. Hammer with handle 5 Kg - 1 No. j. Grease gun - 1 No.				
	k. Ring spanners 1/4 " to 1" - 1 Set				

Sr. No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
24	Fire fighting equipment. a) Supply and installation of CO ₂ type fire estinguisher 2 Kg capacity with initial charges with wall mounting bracket, ready for use (TS 2678) -2 Nos b) Supplying and fixing of first aid box comprising of the standard medicines to be provided in the first aid box to give first aid treatment- 1 No. c) Providing shock treatment chart on the wall with inside plastic sheet cover and plywood back plate frame work complete. d) Supply one set of buckets (4 nos) with round bottom made of GI sheets24 SWG 9 ltr. capacity painted inside white and outside red with a word 'fina' on the face of the bucket along with stand to hang the buckets. e) Supplying rubber mats tested 22 KV with ISI mark grooved of size 6'x3'x1/2" - 2 Nos. f) Supplying rubber gloves, electrical quality, tested to 22 KV - 1 Pair.				
25	g) Supplying and fixing of Danger/ No. Admission/ No. Smoking Board made out of MS sheet metal with two coats of non-corrosive enamelled paint. EARTHING: a) Earthing with G.I. plate 600mm X 600mm X 6mm including accessories like masonry enclosure cover plate with locking arrangement, watering pipe charcoal and salt complete as required connecting through G.I. strips.	Each	2.00	3500.00	7000.00
26	b) Earth electrode for grounding Electrical equipment by providing the earth pit using 40mm dia, 2.90mm thick G.I Pipe 2.5 mts long buried in a pit. The pit should be filled with equal proportion of salt and charcoal 150 mm around the pipe to complete depth. The connections from the pipe to the conduits etc., is to be established through G.I. wire of size as per ISI Specification 7.3.3 of IS 732 using 12 mm bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia Gulharga SR		4.00	2000.00	8000.00
	Erection, testing, commissioning and trial running of turbine pump and motor with all accessories necessary for satisfactory running of pump including cost of all materials, machinery, labour etc., complete as per specification of contract. Including cost of running the pumping machinery successfully for 60 days (Excluding the cost of KPTCL Bill for supply of power) More than Above 50 HP with all accessories	No	1.00	15600.00	15600.00
27	Providing Solar yard lignting to WTP (Sub Estimate Enclosed)				839250.00
\vdash				TOTAL	6968318.80 6968400.00

Pellanjath

Assistant Executive Engineer
PRE sub Division Srirangapatna

Executive Engineer PRE Division Mandya

SR.	Sub Estimate for Providing Solar yard lign DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Supplying and fixing of solar street light system with mounting and pole (MNES specification) with following specification including cost of transporting to site fixing charges etc. complete 1x11 watts CFL bulb PV module - 74 watts battery cpacity - 12 volts, 75 AH		30	27,975.00	8,39,250.00
	GRAND TOTAL RS.				8,39,250.00

Assistant Executive Engineer
PRE sub Division Srirangapatna

Executive Engineer PRE Division Mandya

SUB ESTIMATE: RAISING MAIN FROM JACKWELL TO WTP

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Cutting of road surface for pipelline directed including barricading, danger					ed stuff as			
	Schedule Of Rates PRE,Mysore	Circle 20	12-13 (Page No.3 Ite	em No.1.7	7)			
	Cutting Macadam road surface	cum	1	50.00	0.75	0.15	5.63	174.00	980.00
	Cutting Asphalting surface road	cum	1	10.00	0.75	0.20	1.50	225.00	338.00
2	Providing, laying, spreading and combound macadam specification includer rolling with three wheel 80-100kN sapplying and brooming, stone screening aggregate, watering and compacting Specification Clause 405. By Manual M	ling spreat tatic roller ng/binding to the rec	ding in in in stag materia	uniform thickness to proper to fillup the i	ess, hand grade and nterstices	packing, camber, of coarse			
	Schedule Of Rates PRE, Mysuru	Circle II.	2.5.1.6	(Page No.25	Item No.	4.7 - 3 - A)		
		cum	1	50.00	0.75	0.15	5.63	2143.00	12065.00
3	Providing, laying and rolling of open-gradients and to 5.6 mm aggregates eith required line, grade and level to servincluding mixing in a suitable plant, laroller capacity, finished to required Mechanical Means (Bitumen (S-65)	ner using e as wear aying and	penetrati ing cours rolling w	on grade bitur se on a previol ith a three whe	nen or en usly prepa eel 80-100	nulsion to red base, kN static			
	Schedule Of Rates PRE, Mysuru	Circle II.	2.5.1.6	(Page No.32	Item No.	.5.11 -Case	e-2 -Type-B	ll)	
		cum	1	10.00	0.75	0.20	1.50	104.00	156.00
4	Earth work in excavation for water super trenches (Upto 601mm trench wide including setting out construction or removal of stumps and other deleters the excavation earth to the extent recovery in the following clasification by Management of the extent recovery in the following clasification by Management of the extent recovery in the following clasification by Management of the extent recovery in the following clasification by Management of the extent of the e	th) as perfection of the perfe	er drawi strutting t r, dressii d utilising	ing and tech parricading,dan ng of sides and	nical spager lighting bottom,	ecification g,bracing, backfilling			
	Schedule Of Rates PRE,Mysore	Circle 20 cum	1 2-13 (Page No.3 Ite 4350.00	em No.1. 4 0.60	4) 1.50	3915.00		
i	In Ordinary/Hard soil						3915.00		
ı	Considering 80% of qty	cum	39	315.00	x	80%	3132.00	45.00	140940.00
iii	In Ordinary rock without blasting								
	Considering 20% of qty	cum	39	915.00	X	20%	783.00	60.00	46980.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
5	Providing murrum or sand bedding for punners etc. complete with all lead and			•	•	•			
	Schedule Of Rates PRE, Mysore (Circle 20	012-13 (1	Page No.4 425.00		9) 0.10	25.50	78.00	1989.00
6	Supplying Ductile Iron pipes K-9 Class and conveying to worksite, rolling and perfect linking at joints, testing and co destinations and cuts of pipes wher specials, (excluding cost of specials) v spigot ends with soap solution and ap insertion of rubber gaskets, jacking a solution, soft soap, waste etc. and giv as per ISS with all lead and lift includiown arrangements for procuring water Grade Pig Iron (Si:2%-2.5%) with WPI	lowering mmission ever necessith rubbe plying soin fixing ing necessing cost or for testing	into trending, includessary in gaskets ft soap to in perfect ssary hyd f jointing (ng). DI Pip	ches, laying ding loading neluding joing including country the spigot at conditions raulic test to materials. (coe rates are	rith latest ame true to lline, and unloadinating of DI pleaning the second cost and socket entincluding cost the required ontractor will	endments level and ng at both pipes and pocket and nds before st of soap d pressure make his			
	Schedule Of Rates KUWS & DB, Item No.II.2.5.2)	Karnata	ıka Boar	d 2018-20 ⁻	l9 (Page N	o.14			
	200 mm dia	Rmt	1	4350.00 10% for Spe			4350.00	2410.24	10484544.00 1048454.40
7	Supply and fixing of Cast Steel D Conforming to API 594 with latest ar and types and conveying to work site lead and lift. The rates are inclusive of	mendmer e, loading	nts as det g, unloadi	ailed below	of following etc.,comple	diameters			
	200 mm dia	Each	1				1	17413.76	17413.76
8	Construction of Thrust blocks of require (Sub estimate enclosed)	ed size							
		nos.	6				6	10000.00	60000
9	Supply and Delivery of resilient sear Ductile iron of grade GGG50, wedge the valves should be of vaccum tight 5163-89/IS 14846-2000/ DIN 3202 sealing rings (minimum 2 "O" rings y galvanized bolts and nuts of required of Schedule Of Rates KUWS & DB,	fully rubl and 100% F4/F5,. T o. All the numbers	per lined 6 leak pro 6 he steam 7 valves S 8 per rel	with EPDM pof with face n Sealing S hall be sup evant IS PN	and Seals of dimensions hould be with blied with suith	NBR and as per BS th toroidal itable size			
	Item No.II.2.10.2) 200 mm dia	Each	1				1.00	33691.84	33692.00

	und o Bivision			IVIAII	auevpura,	SHIKKAHKAH	arialli, N.Si	iettynaiit and	otner 16 villag
SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
10	Supply and Delivery of resilient se Ductile iron of grade GGG50, wedge the valves should be of vaccum tigh 5163-89/IS 14846-2000/ DIN 3202 sealing rings (minimum 2 "O" rings galvanized bolts and nuts of required	e fully rubbe t and 100% F4/F5,. Th). All the v	er lined w leak prod e steam alves Sh	ith EPDM and the control of with face of Sealing Should be supplied the supplied th	nd Seals of limensions ould be with ed with sui	NBR and as per BS the toroidal			
	Schedule Of Rates KUWS & DB Item No.II.2.10.2)	3, Karnatak	a Board	l 2018-2019) (Page N	o.18			
	Scour 150 mm dia	Each	3				3.00	21240.80	63722.00
11	Supply and fixing of single chamber the single chamber) Air valves with be internal parts such as float, shell etc float of HOSTAFLON /SSRAL5005 functions i.e: 1. Large orifice for venting of large air 2. Large orfice for Intake of large air 3. Small orifice for Discharge of press	oody and cover be all cover be to the valve on volumes on Volumes	ver in duction of authors of auth	tile cast iron stitic alloy/ \$ d be design	of grade Go	GG 50. all el , DN 50			
	Schedule Of Rates KUWS & DB Item No.II.2.10.8)	s, Karnatak	a Board	2018-2019	(Page N	o.19			
	80 mm dia	Each	2.00				2.00	28181.44	56363.00
12	Construction of Valve Chamber (Sub estimate enclosed)	Nos	6.00				6.00	33000.00	198000.00
13	Supplying , installing and commission accessories including display panel in								
		Set	2				2.00	1188000.00	2376000.00
14	Miscellaneous and rounding charges								4362.84
								Total	14546000.00

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜ ಸರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ನಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

Gallanjath -

Koushik Consultant

SUB ESTIMATE: CONSTRUCTION OF AERATOR

No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Earth work excavation for foundation including setting out, construction removal of stumps and other delet the excavation earth to the extent work etc, complete by Mechanical	of shoring, terious matter required an	strutting bar er, dressing	ricading,dang of sides and	ger lighting I bottom, b	,bracing, ackfilling			
	Schedule Of Rates PRE,Myso	re Circle 2	012-13 (Pa	age No.2 Ite	em No.1.3)			
	in Hard soil								
	For Aerator column	cum	4	1.20	1.20	1.20	6.91		
	For Mixer platform	cum	1	1.50	1.50	1.20	2.70		
	For Channel	cum	1	1.50	1.50	1.20	2.70		
	Raft Beam	cum	3.14	2.70	0.60	0.45	2.29		
	Deduction for column portion	cum	-4	1.20	0.60	0.45	-1.30		
							13.30	30.00	399.00
		•		nt concrete N					
	Schedule Of Rates PRE, Mysor For Aerator column For Mixer platform	•	012-13 (Pa 4 1	age No.6 Ite 1.20 1.50	em No.2.2 1.20 1.50	0.15 0.15	0.86 0.34		
	Schedule Of Rates PRE, Mysor For Aerator column For Mixer platform For Channel	cum cum cum	0 12-13 (P a 4 1 1	age No.6 Ite 1.20 1.50 1.50	1.20 1.50 1.50	0.15 0.15 0.15	0.34 0.34		
	Schedule Of Rates PRE, Mysor For Aerator column For Mixer platform For Channel Raft Beam	cum cum cum cum cum	012-13 (Pa 4 1 1 3.14	1.20 1.50 1.50 2.70	n No.2.2 1.20 1.50 1.50 0.60	0.15 0.15 0.15 0.15	0.34 0.34 0.76		
	Schedule Of Rates PRE, Mysor For Aerator column For Mixer platform For Channel	cum cum cum cum	0 12-13 (P a 4 1 1	age No.6 Ite 1.20 1.50 1.50	1.20 1.50 1.50	0.15 0.15 0.15	0.34 0.34	3984.00	8725.00
3	Schedule Of Rates PRE, Mysor For Aerator column For Mixer platform For Channel Raft Beam	cum	912-13 (Pa 4 1 1 3.14 -4 gn mix for pproved gra gate includir t laid in 15cr faces where	1.20 1.50 1.50 2.70 0.30 RCC works dation hard Ing weigh bat ms thick, layer rever necess	1.20 1.50 1.50 0.60 0.60 (excluding broken granch plant mers well consarry plywoode meams belowed)	0.15 0.15 0.15 0.15 0.15 0.15 0.16 g cost of nite, trap, ixing and isolidated od / steel	0.34 0.34 0.76 -0.11	3984.00	8725.00
3	Schedule Of Rates PRE, Mysor For Aerator column For Mixer platform For Channel Raft Beam Deduction for column portion (a) Providing and laying vibrater reinforcement) with 20mm and do basalt or with any other approved conveyance of all materials with all vibrating curing smooth finishing form work, centering etc., complete for Schedule Of Rates KUWS & Item No.III.1.3.a	cum	912-13 (Pa 4 1 1 3.14 -4 gn mix for pproved gra gate includir t laid in 15cr faces where comblined for	1.20 1.50 1.50 2.70 0.30 RCC works dation hard Ing weigh bat ms thick, layer rever necessooting, raft, b	1.20 1.50 1.50 0.60 0.60 (excluding broken granch plant mers well consary plywoode earns belook (Page No.	0.15 0.15 0.15 0.15 0.15 0.15 0.15 vg cost of nite, trap, ixing and isolidated od / steel w ground 0.38	0.34 0.76 -0.11 2.19	3984.00	8725.00
3	Schedule Of Rates PRE, Myson For Aerator column For Mixer platform For Channel Raft Beam Deduction for column portion (a) Providing and laying vibrate reinforcement) with 20mm and do basalt or with any other approved conveyance of all materials with all vibrating curing smooth finishing form work, centering etc., complete for Schedule Of Rates KUWS & Item No.III.1.3.a) For Aerator column	cum	912-13 (Pa 4 1 1 3.14 -4 gn mix for pproved gra gate includir t laid in 15cr faces where comblined for aka Board	1.20 1.50 1.50 2.70 0.30 RCC works dation hard Ing weigh bat ms thick, layer rever necess cotting, raft, b 2018-2019	1.20 1.50 1.50 0.60 0.60 (excluding broken granch plant mers well consary plywood eeams below (Page No. 1.05	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	0.34 0.34 0.76 -0.11 2.19	3984.00	8725.00
3	Schedule Of Rates PRE, Mysor For Aerator column For Mixer platform For Channel Raft Beam Deduction for column portion (a) Providing and laying vibrater reinforcement) with 20mm and do basalt or with any other approved conveyance of all materials with a vibrating curing smooth finishing form work, centering etc., complete for Schedule Of Rates KUWS & Item No.III.1.3.a) For Aerator column For Mixer platform	cum	one of the second of the secon	RCC works dation hard Ing weigh bat thick, layer rever necess tooting, raft, be 2018-2019	1.20 1.50 1.50 0.60 0.60 (excluding broken granch plant mers well contary plywood earns below (Page No. 1.05 1.35	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	0.34 0.76 -0.11 2.19	3984.00	8725.00
3	Schedule Of Rates PRE, Mysor For Aerator column For Mixer platform For Channel Raft Beam Deduction for column portion (a) Providing and laying vibrater reinforcement) with 20mm and do basalt or with any other approved conveyance of all materials with all vibrating curing smooth finishing form work, centering etc., complete for Schedule Of Rates KUWS & Item No.III.1.3.a) For Aerator column For Mixer platform For Channel	cum	one of the second of the secon	1.20 1.50 1.50 2.70 0.30 RCC works dation hard Ing weigh bat ms thick, layer rever necess coting, raft, because 1.05 1.35 1.35	1.20 1.50 1.50 0.60 0.60 (excluding broken granch plant mears well constant plywood earns below (Page No. 1.05 1.35 1.35	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	0.34 0.76 -0.11 2.19 1.32 0.55 0.55	3984.00	8725.00

Baffels

cum

14

0.30

0.10

0.40

0.17 3.20

14810.88

DW	and S Division			Maha	devpura,C	hikkankan	ahalli,K.sh	ettyhalli and	other 16 villa
SI. No.	Description of works.	. Unit	No.	L	В	D	Qty	Rate	Amount.
4	Providing and laying vibrated and above G.L. with 20 mm ar cost and conveyance of all m centering including machline m in cm 1:3, 12 mm thick etc., complete (excluding machline)	nd down size of a naterials with all nixing laying, vibr	approved gra lead lift. wa ating and sn	adation hard ith plywood	aggregate or steel fo	including rm work,			
	Schedule Of Rates KUWS Item No.III.2.5)	& DB, Karnata	aka Board	2018-2019	(Page No	0.43			
	For Aerator column	cum	4	0.30	0.30	3.45	1.24		
	For Mixer platform	cum	1	0.30	0.30	3.45	0.31		
	For Channel	cum	1	0.23	0.23	3.15	0.17		*
							1.72	14173.60	24379.00
	Providing and laying vibrated I approved gradation hard broke including cost and conveyance plant mixing, centreing plywo mortar plastering in C.M. 1:3 (excluding cost of reinforcement)	en granite, basali e of all materials od / steel form proportion 12 i	t, trap or any with all lea work, scaff mm. thick fo	other approad and lift indicated	ved hard a cluding wei ng, curing face etc.,	iggregate igh batch , cement complete			
	Schedule Of Rates KUWS Item No.III.2.6.2) Aerator Bottom slab	& DB, Karnata	aka Board	2018-2019 4.30	(Page N o	0.15	2.18		
	Beam	cum	3.142	2.70	0.30	0.23	0.59		
	Mixer Bottom slab	cum	1	1.80	1.80	0.15	0.49		
	Beam	cum	1	1.80	0.30	0.23	0.12		
	Channel Bottom slab	cum	1	5.85	0.40	0.15	0.35		
						0.42	0.42		
	Beam	cum	1	5.85	0.23	0.23	0.31		
							4.46	14194.88	63366.00
6	(b) Providing and laying vibratisize of approved gradation has aggregate, including, cost and plywood/steel form work, cer proportion, 20mm. thick for in proportion of approved qual construction joints wherever a complete (excluding cost of channel, baffels, etc. complete)	ard broken grani d conveyance o ntering, scaffold nside with admix lity including w necessary and o reinforcement)	te, trap, bas f all materia ing, cement dure of wat eigh batch giving satisf for for vertic	salt or any o als with all la mortar, pla er proof cor plant mixir actory water cal side wal	ther appro ead & lift, astering in appound of ag, curing, proof tes ls, alround	ved hard including CM 1:3 requisite making ting etc.,			
	Schedule Of Rates KUWS Item No.III.2.4.b) Aerator side slab	& DB, Karnata cum cum	aka Board : 3.14 3.14	2018-2019 4.15 1.05	(Page No 0.15 0.15	0. 43 0.50 1.20	0.98 0.59		
	Channel Side slab	cum	2	5.85	0.15	0.50	0.88		
		cum	2	0.15	3.87	0.50	0.58		
	Poffole		1.4	0.10	0.40	0.00	0.00		

47395.00

il. o.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
7	KSRB 2.3 : Filling available exc plinth in layers not exceeding ramming after watering with lead complete as per specifications.	20 cms. in d d upto 50 m. a	epth, compa	cting each	deposited	layer by			
	Schedule Of Rates PWD,My	sore Circle 2	2016-17 (Pa	age No.6					
	Item No.2.10)	CUM					13.30	127.00	1689.0
8	KSRB 6-2.3 : Providing and conmodular bricks of standard size 1:6 for basement and superscaffolding, curing complete as part of the standard size of the sta	of class desigr rstructure incl	nation 50 (tab uding cost	ole moulded) of materials	with ceme , labour	nt mortar			
	Schedule Of Rates PWD,My	sore Circle 2	2016-17 (Pa	age No.29 I	tem No.6	.6)			
	Bottom step	cum	0.785	3.00	3.00	0.30	2.12		
	Middle step	cum	0.785	2.40	2.40	0.30	1.36		
	Top Step	cum	0.785	1.80	1.80	0.30	0.76		
	Deduct center duct	cum	-0.785	1.20	1.20	0.90	-1.02		
							3.22	6685.00	21525.0
9	KSRB15-3.9 :Providing 18mm the	•	_			•			
9	brick masonry including round Providing and removing scaffold per specifications.	ding off corne ding, including	rs wherever cost of mate	required sr rials, labour,	nooth ren curing con	dering, : nplete as			
9	brick masonry including round Providing and removing scaffold	ding off corne ding, including	rs wherever cost of mate	required sr rials, labour,	nooth ren curing con	dering, : nplete as			
9	brick masonry including round Providing and removing scaffold per specifications.	ding off corne ding, including	rs wherever cost of mate	required sr rials, labour,	nooth ren curing con	dering, : nplete as			
9	brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My	ding off corne ding, including ysore Circle 2	rs wherever cost of mate	required sr rials, labour,	nooth ren curing con	dering, : nplete as	2.55		
9	brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My	ding off corne ding, including ysore Circle 2 sqm	rs wherever cost of mate	required sr rials, labour, age No.116	nooth ren curing con	dering, : nplete as	2.55 1.98		
9	brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Top of steps Bottom step	ding off corne ding, including ysore Circle 2 sqm sqm	rs wherever cost of mate 2016-17 (Page 3.142	required sr rials, labour, age No.116 2.70	nooth ren curing con	dering, : nplete as 15.17)			
9	brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Top of steps Bottom step Middle step Top Step	ding off corne ding, including ysore Circle 2 sqm sqm sqm	rs wherever cost of mate 2016-17 (P. 3.142 3.142	required sr rials, labour, age No.116 2.70 2.10	nooth ren curing con	dering, : nplete as 15.17) 0.30 0.30	1.98		
9	brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Top of steps Bottom step Middle step Top Step Sides	ding off corne ding, including ysore Circle 2 sqm sqm sqm sqm	rs wherever cost of mate 2016-17 (P. 3.142 3.142 3.142	required sr rials, labour, age No.116 2.70 2.10 1.50	nooth ren curing con	dering, : nplete as 15.17) 0.30 0.30 0.30 0.30	1.98 1.41		
9	brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Top of steps Bottom step Middle step Top Step Sides Bottom step	ding off corne ding, including ysore Circle 2 sqm sqm sqm sqm sqm	3.142 3.142 3.142 3.142	required sr rials, labour, age No.116 2.70 2.10 1.50 3.00	nooth ren curing con	dering, : nplete as 15.17) 0.30 0.30 0.30 0.30	1.98 1.41 2.83 2.26 1.70		
9	brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Top of steps Bottom step Middle step Top Step Sides Bottom step Middle step Top Step Sides Bottom step Middle step Top Step	ding off corne ding, including ysore Circle 2 sqm sqm sqm sqm sqm	3.142 3.142 3.142 3.142 3.142	required sr rials, labour, age No.116 2.70 2.10 1.50 3.00 2.40	nooth ren curing con	dering, : nplete as 15.17) 0.30 0.30 0.30 0.30 0.30 0.30	1.98 1.41 2.83 2.26		
9	brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Top of steps Bottom step Middle step Top Step Sides Bottom step Middle step Top Step Deductions	ding off corne ding, including ysore Circle 2 sqm sqm sqm sqm sqm sqm sqm	3.142 3.142 3.142 3.142 3.142 3.142 3.142	required sr rials, labour, age No.116 2.70 2.10 1.50 3.00 2.40 1.80	nooth ren curing con	dering, : nplete as 15.17) 0.30 0.30 0.30 0.30 0.30 0.30	1.98 1.41 2.83 2.26 1.70 12.73		
Đ	brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Top of steps Bottom step Middle step Top Step Sides Bottom step Middle step Top Step Sides Bottom step Middle step Top Step	ding off corne ding, including ysore Circle 2 sqm sqm sqm sqm sqm	3.142 3.142 3.142 3.142 3.142	required sr rials, labour, age No.116 2.70 2.10 1.50 3.00 2.40	nooth ren curing con	dering, : nplete as 15.17) 0.30 0.30 0.30 0.30 0.30 0.30	1.98 1.41 2.83 2.26 1.70 12.73	109.00	2202.0
9	brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Top of steps Bottom step Middle step Top Step Sides Bottom step Middle step Top Step Deductions	ding off corne ding, including ysore Circle 2 sqm sqm sqm sqm sqm sqm sqm	3.142 3.142 3.142 3.142 3.142 3.142 3.142	required sr rials, labour, age No.116 2.70 2.10 1.50 3.00 2.40 1.80	nooth ren curing con	dering, : nplete as 15.17) 0.30 0.30 0.30 0.30 0.30 0.30	1.98 1.41 2.83 2.26 1.70 12.73	198.00	2393.0
9	brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Top of steps Bottom step Middle step Top Step Sides Bottom step Middle step Top Step Deductions	ding off corne ding, including ysore Circle 2 sqm sqm sqm sqm sqm sqm sqm sqm sqm sq	rs wherever cost of mate 2016-17 (Page 3.142 3.142 3.142 3.142 3.142 3.142 3.142 4.	required srrials, labour, age No.116 2.70 2.10 1.50 3.00 2.40 1.80 0.90 ith colour glaserry over rough measured ast of material	azed tiles of gh plaster nd paid sels, labour,	dering, : nplete as 15.17) 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.	1.98 1.41 2.83 2.26 1.70 12.73	198.00	2393.0
	brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Top of steps Bottom step Middle step Top Step Sides Bottom step Middle step Top Step Deductions Central Shaft portion KSRB 14-17.2 : Providing skirt thick cement plaster 1:3 and joexcluding cost of rough plaster using glazed tiles of approved as per specifications. Specifica 6mm thick with border of size 36	ding off corne ding, including ysore Circle 2 sqm sqm sqm sqm sqm sqm sqm sqm sqm sq	rs wherever cost of mate 2016-17 (Page 3.142 3.142 3.142 3.142 3.142 3.142 3.142 4.	required srrials, labour, age No.116 2.70 2.10 1.50 3.00 2.40 1.80 0.90 ith colour glaserry over rough measured ast of material	azed tiles of gh plaster nd paid sels, labour,	dering, : nplete as 15.17) 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.	1.98 1.41 2.83 2.26 1.70 12.73	198.00	2393.0
	brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Top of steps Bottom step Middle step Top Step Sides Bottom step Middle step Top Step Deductions Central Shaft portion KSRB 14-17.2 : Providing skirt thick cement plaster 1:3 and joexcluding cost of rough plaster using glazed tiles of approved as per specifications. Specifications.	ding off corne ding, including ysore Circle 2 sqm sqm sqm sqm sqm sqm sqm sqm sqm sq	rs wherever cost of mate 2016-17 (Page 3.142 3.142 3.142 3.142 3.142 3.142 3.142 4.	required srrials, labour, age No.116 2.70 2.10 1.50 3.00 2.40 1.80 0.90 ith colour glaserry over rough measured ast of material	azed tiles of gh plaster nd paid sels, labour,	dering, : nplete as 15.17) 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.	1.98 1.41 2.83 2.26 1.70 12.73	198.00	2393.0

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.

11 KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.120 Item No.15.53.1)

Aerator						
Bottom Slab	Sqm	0.785	4.300	4.30		14.51
Side wall outside	Sqm	3,14	4.300		0.65	8.78
		(3.142x2)				
Beam	Sqm	6.284	2.700		0.23	3.90
Columns	Sqm	4	1.200		2.62	12.58
Mixer Slab	Sqm	1	1.800	1.80		3.24
Beam sides	Sqm	2	1.800		0.23	0.83
Column	Sqm	1	1.200		4.00	4.80
Channel slab	Sqm	1	5.100	0.90		4.59
Beam sides	Sqm	1	5.850		0.23	1.35
Verticle wall	Sqm	2	5.100		0.65	6.63
Column	Sqm	1	1.200		3.50	4.20
Sedimentation channel	Sqm	1	0.750	8.55		6.41
Side wall	Sqm	1	8.550		0.65	5.56
	Sqm	2	0.750		0.65	0.98
						78.35

12 Providing and fabricating TMT reinforcement including, straightening cutting, bending, hooking, lapping and / or welding wherever required, placing in position and tying with binding wire of approved quality and guage including cost of binding wire and anchoring to the adjoining members wherever necessary including all laps and wastages ect., complete as per design specification and directions (laps and wastages not to be measured and paid)

Schedule Of Rates PRE, Mysore Circle 2012-13 (Page No.VIII Item No.79 & 2.11)

2.11)	Ohy of Home No. 2			0.07		
For Footing	Qty of Item No.3			3.07		
For Columns	Qty of Item No.4			1.72		
For Roof & Beam	Qty of Item No.5			4.46		
For side Slab	Qty of Item No.5			3.20		
				12.45		
	Kgs	12.45	@120 Kg/Cum	1494.00		
	MT			1.49	56697.50	84479.00

69.00

5405.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
13	Supplying & Fixing CI puddle flanges in position for R.C.C. walls including and lift etc., complete.		-			•			
	Schedule Of Rates KUWS & DB Item No.III.1.14)	Karnata	ka Board	d 2018-201	9(Page I	No.40			
	a CI Puddle Flanges								
	200 mm dia	Nos	1				1	8264.48	8264.00
	c CI double flanged pipes								
	200 mm dia	Mtr	10				10	5776.96	57770.00
14	Supply and Delivery of resilient sea Ductile iron of grade GGG50, wedge the valves should be of vaccum tight 5163-89/IS 14846-2000/ DIN 3202 sealing rings (minimum 2 "O" rings galvanized bolts and nuts of required	fully rubb and 100% F4/F5,. Th). All the	er lined w leak prod ne steam valves Sh	rith EPDM a of with face Sealing Sh all be supp	nd Seals of dimensions ould be with still be	of NBR and as per BS with toroidal			
	Schedule Of Rates KUWS & DB, Item No.II.2.10.2)	Karnata	ka Board	1 2018-201	9(Page I	No.18			
	200 mm dia	Each	1				1.00	33691.84	33692.00
15	Construction of Thrust block (Sub estimate enclosed)	Nos	1					10000.00	10000.00
16	Providing & Constructing SSM Valve	Chamber (as per Ty _l	pical estima	e enclosed)			
	For Cleaning purpose	Nos	1				1	24000.00	24000.00
17	Rounding off								74.00
							Т	otal _	430000.00

a. allanjak

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜ*ೆಯ*್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈಪ್ ಪಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ 6. SUB ESTIMATE: DI UNIT

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Providing and fixing Hypo chlorite ge including all lead & lift, loading and u machinaries and equipments used for the GP etc., complete. - for Discharge 0.036 cum /sec	in loading o	charges ar	nd all other	incidental cl	harges, hire	charges for		
		Unit	1				1	600000.00	600000.00

Total

600000.00

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

SUB ESTIMATE: CONSTRUCTION OF FLASH MIXER

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Earth work excavation for foundational including setting out, construction removal of stumps and other delet excavation earth to the extent requirements of the extent requirements.	n of shorin terious matt	ng,strutting bar er, dressing of	ricading,dar sides and b	iger lighting ottom, back	g,bracing, filling the		i	
	Schedule Of Rates PRE,Myson	re Circle 2	012-13 (Page	e No.2 Item	No.1.3)				
	In Hard soil								
	Overall area		0.785398	1.00		g Depth	45.07		
	Overall area Inlet pipe	cum	0.700090	1.90 20.00	3.50 0.800	3.00 1.50	15.67 24.00		
	Sludge pipe	cum	1	20.00	0.500	1.50	15.00		
	Oldage pipe	cum	•	20.00	0.000	1.50	54.67	30.00	1640.00
2	Providing and laying granite or bas- jelly for foundation laid in 15 cm thio hand mixers, curing etc. complete a	ck layers ar	nd well cum con	npacted inclu	uding mixing				
	Schedule Of Rates PRE,Myso	re Circle 2	.012-13 (Pag	e No.6 Item	No.2.1)				
	Schedule Of Rates PRE,Myson Overall area	re Circle 2	0.785398	e No.6 Item 1.75	1.75	0.10	0.24		
2	Overall area	cum	0.785398	1.75	1.75		0.24 0.24	3864.00	927.00
3	•	cum 130 design i granite, tra all materials nt mortar, p coof compoi , curing, ma ing etc., coi or will make	0.785398 mix for R.C.C. Nap, basalt or any s with all lead & blastering in CN and of requisite king construction mplete (excluding his own arrangement)	1.75 Norks with 2 y other approx lift, includin 1:3 propor e proportion on joints whe ng cost of re	1.75 0 mm and oved hard a g plywood/stion, 20mm of approverever necessinforcement r procuring	down size ggregate, steel form . thick for ed quality ssary and t) for floor water for		3864.00	927.01
3	(a) Providing and laying vibrated M of approved gradation hard broken including, cost and conveyance of work, centering, scaffolding, cemeinside with admixture of water princluding weigh batch plant mixing, giving satisfactory water proof testislab, resting on ground. (contracte testing) (Cement @ 400 Kgs). Schedule Of Rates KUWS & D. No.III.2.4.a.)	cum 130 design i granite, tra all materials nt mortar, p coof compoi , curing, ma ing etc., coi or will make	0.785398 mix for R.C.C. Nap, basalt or any s with all lead & blastering in CN and of requisite king construction mplete (excluding his own arrangement)	1.75 Norks with 2 y other approx lift, includin 1:3 propor e proportion on joints whe ng cost of re	1.75 0 mm and oved hard a g plywood/stion, 20mm of approverever necessinforcement r procuring	down size ggregate, steel form . thick for ed quality ssary and t) for floor water for		3864.00	927.00
3	(a) Providing and laying vibrated M of approved gradation hard broken including, cost and conveyance of work, centering, scaffolding, ceme inside with admixture of water princluding weigh batch plant mixing, giving satisfactory water proof testislab, resting on ground. (contracte testing) (Cement @ 400 Kgs). Schedule Of Rates KUWS & D No.III.2.4.a)	cum 130 design in granite, tra all materials of compoint, curing, maining etc., cor or will make	0.785398 mix for R.C.C. Nap, basalt or any s with all lead & plastering in CN and of requisite aking construction plete (excluding his own arrange his own arrange has aka Board 20	1.75 Works with 2 y other approximate in the proportion on joints when gost of rengements for the proportion of the pr	1.75 0 mm and oped hard a g plywood/stion, 20mm of approve erever necessinforcement r procuring	down size ggregate, steel form . thick for ed quality ssary and t) for floor water for	0.24	3864.00	927.00
3	(a) Providing and laying vibrated M of approved gradation hard broken including, cost and conveyance of work, centering, scaffolding, cemeinside with admixture of water princluding weigh batch plant mixing, giving satisfactory water proof testislab, resting on ground. (contracte testing) (Cement @ 400 Kgs). Schedule Of Rates KUWS & D. No.III.2.4.a.)	cum 130 design i granite, tra all materials nt mortar, p coof compoi , curing, ma ing etc., coi or will make	0.785398 mix for R.C.C. Nap, basalt or any s with all lead & blastering in CN and of requisite king construction mplete (excluding his own arrangement)	1.75 Norks with 2 y other approx lift, includin 1:3 propor e proportion on joints whe ng cost of re	1.75 0 mm and opved hard a g plywood/stion, 20mm of approve erever necestinforcement r procuring	down size ggregate, steel form . thick for ed quality ssary and t) for floor water for		3864.00	927.00
3	(a) Providing and laying vibrated M of approved gradation hard broken including, cost and conveyance of work, centering, scaffolding, cemeinside with admixture of water princluding weigh batch plant mixing, giving satisfactory water proof testislab, resting on ground. (contracte testing) (Cement @ 400 Kgs). Schedule Of Rates KUWS & D No.III.2.4.a) M-30 for Raft Overall area	cum 130 design i granite, tra all materials nt mortar, p oof compon , curing, ma ing etc., con or will make	0.785398 mix for R.C.C. \ ip, basalt or any s with all lead 8 blastering in CN und of requisite iking construction plete (excluding e his own arrang aka Board 20 0.785398	1.75 Works with 2 y other approximate ifft, including 1:3 proportion on joints when goest of rengements for 18-2019 (F	1.75 0 mm and oved hard a g plywood/stion, 20mm of approve erever necestinforcement r procuring Page No.4: 1.45 (1.	down size ggregate, steel form . thick for ed quality ssary and t) for floor water for 3 Item 0.20 40+1.00)/2	0.24	3864.00	927.00
3	(a) Providing and laying vibrated M of approved gradation hard broken including, cost and conveyance of work, centering, scaffolding, ceme inside with admixture of water princluding weigh batch plant mixing, giving satisfactory water proof testislab, resting on ground. (contracte testing) (Cement @ 400 Kgs). Schedule Of Rates KUWS & D No.III.2.4.a)	cum 130 design in granite, tra all materials of compoint, curing, maining etc., cor or will make	0.785398 mix for R.C.C. Nap, basalt or any s with all lead & plastering in CN and of requisite aking construction plete (excluding his own arrange his own arrange has aka Board 20	1.75 Works with 2 y other approximate in the proportion on joints when gost of rengements for the proportion of the pr	1.75 0 mm and opved hard a g plywood/stion, 20mm of approve erever necestinforcement r procuring	down size ggregate, steel form . thick for ed quality ssary and t) for floor water for	0.24	3864.00	927.00
3	(a) Providing and laying vibrated M of approved gradation hard broken including, cost and conveyance of work, centering, scaffolding, cemeinside with admixture of water princluding weigh batch plant mixing, giving satisfactory water proof testislab, resting on ground. (contracte testing) (Cement @ 400 Kgs). Schedule Of Rates KUWS & D. No.III.2.4.a) M-30 for Raft Overall area	cum 130 design i granite, tra all materials nt mortar, p oof compon , curing, ma ing etc., con or will make	0.785398 mix for R.C.C. \ ip, basalt or any s with all lead 8 blastering in CN und of requisite iking construction plete (excluding e his own arrang aka Board 20 0.785398	1.75 Works with 2 y other approximate ifft, including 1:3 proportion on joints when goest of rengements for 18-2019 (F	1.75 0 mm and oved hard a g plywood/stion, 20mm of approve erever necestinforcement r procuring Page No.4: 1.45 (1.	down size ggregate, steel form . thick for ed quality ssary and t) for floor water for 3 Item 0.20 40+1.00)/2	0.24	3864.00	927.0

	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
4	(b) Providing and laying vibrated M of approved gradation hard broken including, cost and conveyance of work, centering, scaffolding, cemer inside with admixture of water proincluding weigh batch plant mixing, giving satisfactory water proof test vertical side walls, alround effluen (Cement @ 400 Kgs).	granite, tra all materials nt mortar, p oof compos curing, ma ing etc., co	p, basalt or s with all lea plastering in and of requ king constru mplete (exc	any other approach & lift, including CM 1:3 proposition proportion action joints who cluding cost of	oved hard a ng plywood/ rtion, 20mm of approverever nece reinforceme	eggregate, steel form a. thick for ed quality essary and ent) for for			
	Schedule Of Rates KUWS & D	B, Karnat	aka Board	2018-2019 (Page No.4	3 Item			
	No.III.2.4.b) Outer wall	cum	3.141593	1.15	0.15	3.70	2.01		
	Baffle wall	cum	4	0.25	0.10	2.30	0.23		
	Top Beam	cum	2	1.30	0.15	0.15	0.25		
	Deductions	oum	_	1.00	0.15	0.10	0.00		
	Outlet Opening	cum	-0.7854	0.50	0.50	0.15	-0.03		
	Inlet Channel	cum	-1	0.50	0.75	0.15	-0.06		
	Inlet & Outlet Channels	Odin		0.00	0.10	0.15	-0.00		
	Inlet & Out letChannel	cum	2	10.90	1.05	0.15	3.43		
	Baffles in Channel	cum	24	0.30	0.075	0.15	0.24		
	Side	cum	2	10.90	0.075	0.50	1.64		
		54	_	10.00	0.10	0.00	7.52	14810.88	111378.00
	Providing and fabricating TMT reinf	orcement a	icidulity, su	algintering cutu	ily, bellullly				
5	lapping and / or welding wherever approved quality and guage inclu members wherever necessary incl specification and directions (laps ar Schedule Of Rates PRE, Myson	ding cost ouding all land wastages	of binding values and was not to be n	vire and ancho stages ect., con neasured and p	with binding to the mplete as paid)	adjoining per design			
J	approved quality and guage inclumembers wherever necessary includes specification and directions (laps are schedule Of Rates PRE, Myson	ding cost ouding all land wastages	of binding values and was not to be	vire and ancho stages ect., con neasured and p	y with binding with binding to the implete as paid)	adjoining per design			
ŭ	approved quality and guage inclumembers wherever necessary includes specification and directions (laps are schedule Of Rates PRE, Myson Qty of Item No.3	ding cost ouding all land wastages	of binding was and was not to be not to be not 1.56	vire and ancho stages ect., con neasured and p rage No.VIII It	y with binding to the mplete as paid) em No.79	adjoining per design & 2.11)	124.80		
	approved quality and guage inclumembers wherever necessary includes specification and directions (laps are schedule Of Rates PRE, Myson	ding cost ouding all land wastages	of binding values and was not to be	vire and ancho stages ect., con neasured and p	y with binding to the mplete as paid) em No.79	adjoining per design	124.80 601.60 726.40		
	approved quality and guage inclumembers wherever necessary includes specification and directions (laps are schedule Of Rates PRE, Myson Qty of Item No.3	ding cost of uding all land wastages	of binding was and was not to be not to be not 1.56	vire and ancho stages ect., con neasured and p rage No.VIII It	y with binding to the mplete as paid) em No.79	adjoining per design & 2.11)	601.60	56697.50	41389.00
6	approved quality and guage inclumembers wherever necessary included specification and directions (laps are schedule Of Rates PRE, Mysol Qty of Item No.3 Qty of Item No.4 KSRB 15-16.1: Providing and finity paint of approved brand and shad surface to remove all dirt and loo foreign matter cost of materials, lab	ding cost of uding all land wastages of the Circle 2 Kgs MT ishing extende to give one powder our, complete the uding to the complete the complete the complete the uding the uding the complete the uding the u	of binding values and was not to be	vire and ancho stages ect., conneasured and programmed and programmed and programmed and programmed and programmed after thore, free from modecifications.	with binding to the mplete as paid) em No.79 80 Kg 80 Kg h waterprodughly broomtar drops	adjoining per design & 2.11) g/Cum g/Cum of cement oming the and other	601.60 726.40	56697.50	41389.00
	approved quality and guage inclumembers wherever necessary included specification and directions (laps are schedule Of Rates PRE, Myson Qty of Item No.3 Qty of Item No.4 KSRB 15-16.1: Providing and finity paint of approved brand and share surface to remove all dirt and local surface to remove all surface to remo	ding cost of uding all land wastages of the Circle 2 Kgs MT ishing extende to give one powder our, complete the uding to the complete the complete the complete the uding the uding the complete the uding the u	of binding values and was not to be	vire and ancho stages ect., conneasured and programmed and programmed and programmed and programmed and programmed after thore, free from modecifications.	with binding to the mplete as paid) em No.79 80 Kg 80 Kg h waterprodughly broomtar drops	adjoining per design & 2.11) g/Cum g/Cum of cement oming the and other	601.60 726.40	56697.50	41389.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
7	Providing and fixing G.I. pipe railing 33 slab of landings of elevated storage embedding in C.M. pillars with all lead	reservoir	including c	utting. weldir					
	Schedule Of Rates PRE,Mysore	Circle 20	12-13 (Pa	ge No.30 lí	em No.4.	7)			
		Rmtr	3.141593	1.30			4.08 4.08	451.00	1840.00
8	Providing and fixing M.S. Ladder 45 cms C/C duly fixing by holes to full depiron of same section at braces including poisonous anti-corrosive bituminous, and welding)outside	oth of angl	e & welding ground with	with necess n CC (M-15)	ary support	ts and angle coats of non-			
	Schedule Of Rates PRE,Mysore	Circle 20	12-13 (Pa	ge No.29 II	em No.4.	6 a)			
		Rmtr	1	2.50			2.50 2.50	1823.00	4558.00
9	Flocculator paddles made of stainless size and width and fixing of central rod c)Stain less steel paddles	l etc. comp	olete work.			·			
	Supplying, installing and commissionir induction motor, pannel box for motor supporting frame for motor and gear b including cost of material, labour and t Providing and fixing flow measuring In fittings, specials and labour charges	including a ox, reduct ransportal	all excessor ion gearbox tion charges	ies, stainless of required with all lead	steel mixing proportion, and lift	ng blades, etc.			
	Providing and supplying ISMB - 100 in and cost of all labour charges and cos complete (as Market rate)								
		job	1.00				1.00	350000.00	350000.00
	Rounding off								238.00
	2) h			/			ז	otal	525500.00
	A.allaujuah ಸಹಾಯ ಗ್ರಾಮೀಣ ಉ	ಗ್ ಕಾಯ ಕುಡಿಯು ಪ-ವಿಭಾ	ುಕ ಚಾಲಕ ಎವ ಸೀರು ಕ ಎದ. ಶ್ರೀರಂ	್ಷಂ೩ ^ಸ ಮತ್ತು ನೈವಾಣ ದಪಟ್ಟಣ	ာင° - ပ န		×		

SUB ESTIMATE: CONSTRUCTION OF CLARIFLOCULATOR

SI. No.	Description of works.	Unit	No.	L 	B	D	Qty	Rate	Amount.
1	Earth work excavation for foundation including setting out, construction removal of stumps and other delete excavation earth to the extent requirecomplete by Mechanical Means.	of shorir rious matt	ng,strutting bar er, dressing of	rricading,dar sides and b	iger lightin ottom, bacl	g,bracing, kfilling the			
	Schedule Of Rates PRE,Mysore	e Circle 2	2012-13 (Pag	e No.2 Item	n No.1.3)				
	In Hard soil								
					Av	/g Depth			
	Overall area	cum	0.785398	12.80	12.80	1.00	128.68		
	Inlet pipe	cum	1	20.00	0.800	1.50	24.00		
	Sludge pipe	cum	1	20.00	0.500	1.50	15.00		
							167.68	30.00	5030.00
	size jelly for foundation laid in 15 cn using hand mixers, curing etc. comp	lete as pe	r specifications.	. Cement cor	ncrete M10				
	using hand mixers, curing etc. comp	·	2012-13 (Pag	e No.6 Iten	n No.2.1)				
	using hand mixers, curing etc. comp	·				0.15	19.30	2004.00	74575.00
	using hand mixers, curing etc. comp	e Circle 2	2012-13 (Pag	e No.6 Iten	n No.2.1)		19.30 19.30	3864.00	74575.00
3	using hand mixers, curing etc. comp	cum 30 design of granite, tra all material of compor	0.785398 mix for R.C.C. Vap, basalt or any s with all lead 8 blastering in CN und of requisitiving construction	e No.6 Item 12.80 Works with 2 y other appro & lift, includir vi 1:3 proportion on joints who ng cost of re	12.80 20 mm and oved hard a g plywood/ rtion, 20mm of approverever necesinforcemen	down size aggregate, steel form a. thick for ed quality essary and at) for floor		3864.00	74575.00
3	using hand mixers, curing etc. compositions of approved gradation hard broken of including, cost and conveyance of a work, centering, scaffolding, cement inside with admixture of water profincluding weigh batch plant mixing, giving satisfactory water proof testing slab, resting on ground. (contractor testing) (Cement @ 400 Kgs). Schedule Of Rates KUWS & DI No.III.2.4.a)	cum 30 design of granite, trail material of comportium, many etc., coin r will make	0.785398 mix for R.C.C. \ op, basalt or any s with all lead & clastering in Cl und of requisit aking construction mplete (excludit e his own arran	e No.6 Item 12.80 Works with 2 y other appro & lift, includir M 1:3 propol e proportion on joints who ing cost of re	12.80 12.80 20 mm and byed hard a g plywood/rtion, 20mm of approverever necestinforcement or procuring	down size aggregate, (steel form n. thick for ed quality essary and at) for floor water for		3864.00	74575.00
3	Schedule Of Rates PRE, Mysore Overall area (a) Providing and laying vibrated M3 of approved gradation hard broken gincluding, cost and conveyance of a work, centering, scaffolding, cemen inside with admixture of water pro including weigh batch plant mixing, giving satisfactory water proof testin slab, resting on ground. (contractor testing) (Cement @ 400 Kgs).	cum 30 design of granite, trail material of comportium, many etc., coin r will make	0.785398 mix for R.C.C. \ op, basalt or any s with all lead & clastering in Cl und of requisit aking construction mplete (excludit e his own arran	e No.6 Item 12.80 Works with 2 y other appro & lift, includir M 1:3 propol e proportion on joints who ing cost of re	12.80 12.80 20 mm and byed hard a g plywood/rtion, 20mm of approverever necestinforcement or procuring	down size aggregate, (steel form n. thick for ed quality essary and at) for floor water for		3864.00	74575.00
3	using hand mixers, curing etc. compositions of approved gradation hard broken gincluding, cost and conveyance of a work, centering, scaffolding, cement inside with admixture of water proincluding weigh batch plant mixing, giving satisfactory water proof testing slab, resting on ground. (contractor testing) (Cement @ 400 Kgs). Schedule Of Rates KUWS & DI No.III.2.4.a)	cum 30 design of granite, tra all material of comporicuring, maing etc., coin rewill make	0.785398 mix for R.C.C. Vap, basalt or any swith all lead & blastering in Clund of requisitiving construction mplete (excludice his own arrangetaka Board 20	e No.6 Item 12.80 Works with 2 y other approximate in the proportion on joints when the proportion of	12.80 20 mm and oved hard a plywood/tion, 20mm of approverever necestinforcement procuring	down size aggregate, steel form n. thick for red quality essary and nt) for floor water for	19.30	3864.00	74575.00
3	using hand mixers, curing etc. compositions of approved gradation hard broken gincluding, cost and conveyance of a work, centering, scaffolding, cemen inside with admixture of water proincluding weigh batch plant mixing, giving satisfactory water proof testing slab, resting on ground. (contractor testing) (Cement @ 400 Kgs). Schedule Of Rates KUWS & Di No.III.2.4.a) M-30 for Raft Inside Sloping area	cum 30 design of granite, tra ill material of comporcuring, mang etc., con rewill make	0.785398 mix for R.C.C. Vap, basalt or any s with all lead & plastering in Clund of requisitiving construction mplete (excluding this own arrange his own arrange aka Board 20	e No.6 Item 12.80 Works with 2 y other approximate ifft, includir M 1:3 proportion on joints who ng cost of re ngements for 18-2019 (1)	12.80 12.80 20 mm and oved hard a g plywood/rtion, 20mm of approverever necestinforcement procuring	down size aggregate, steel form at thick for red quality essary and at) for floor water for water for 0.30	19.30	3864.00	74575.00
3	using hand mixers, curing etc. compositions of approved gradation hard broken of including, cost and conveyance of a work, centering, scaffolding, cement inside with admixture of water profincluding weigh batch plant mixing, giving satisfactory water proof testing slab, resting on ground. (contractor testing) (Cement @ 400 Kgs). Schedule Of Rates KUWS & DINO.III.2.4.a) M-30 for Raft Inside Sloping area Below outer wall	cum 30 design of granite, tra ill material transtar, por comporcuring, mang etc., con rewill make	0.785398 mix for R.C.C. Vap, basalt or any s with all lead & blastering in Clund of requisitiving construction plete (excluding this own arrange his own arrange taka Board 20 3.141593 3.141593	e No.6 Item 12.80 Works with 2 y other approximate in the second of the second of regements for the second of the	12.80 20 mm and oved hard a g plywood/ rtion, 20mm of approverever necesinforcement procuring Page No.4 4.60 0.85	down size aggregate, steel form at thick for red quality essary and at) for floor water for 0.30 0.30	19.30 19.94 9.79	3864.00	74575.00

SI.				<u></u>					· · · · · · · · · · · · · · · · · · ·		
No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.		
4	(b) Providing and laying vibrated of approved gradation hard broker including, cost and conveyance of work, centering, scaffolding, cemeinside with admixture of water procluding weigh batch plant mixing giving satisfactory water proof test vertical side walls, alround efflue (Cement @ 400 Kgs).	n granite, trap f all materials ent mortar, p roof compou g, curing, mal sting etc., co	o, basalt or a with all lead lastering in and of requi king construmplete (exc	any other approduced & lift, including CM 1:3 proportion ction joints who luding cost of the cost of t	oved hard a g plywood/ tion, 20mm of approverever nece reinforceme	eggregate, steel form on thick for ed quality essary and ent) for for					
	Schedule Of Rates KUWS & I	DB, Karnata	aka Board	2018-2019 (Page No.4	I3 Item					
	No.III.2.4.b) Outer wall	cum	3.141593	12.05	0.25	3.65	34.54				
	Haunch	cum	3.141593	11.65	0.15	0.30	1.65				
	Baffle wall	cum	3.141593	5.55	0.15	4.12	10.78				
	Shaft	cum	3.141593	0.90	0.15	6.39	2.71				
	Shaft platforms	cum	4	2.00	0.30	0.25	0.60				
	Shaft slab	cum	0.785398	1.45	1.45	0.15	0.25				
	Launder Channel	cum	3.141593	11.43	1.25	0.15	6.73				
	Walk way slab	cum	3.141593	12.43	0.75	0.15	4.39				
	Deductions	•				00	*****				
	Baffle wall Opening	cum	-15	1.00	1.00	0.15	-2.25				
	Shaft opening	cum	-4	0.30	0.30	0.15	-0.05				
	Inlet & Outlet Channels										
	Inlet & Out letChannel	cum	2	40.90	1.05	0.15	12.88				
	Baffles in Channel	cum	91	0.30	0.075	0.45	0.92				
	Side	cum	2	40.90	0.15	0.50	6.14				
							79.29	14810.88	1174355.00		
5	Providing and fabricating TMT reinforcement including, straightening cutting, bending, hooking, lapping and / or welding wherever required, placing in position and tying with binding wire of approved quality and guage including cost of binding wire and anchoring to the adjoining members wherever necessary including all laps and wastages ect., complete as per design specification and directions (laps and wastages not to be measured and paid)										
	Schedule Of Rates PRE,Mys	ore Circle 2	2012-13 (P	age No.VIII I	tem No.79	8 2.11)					
	Ohr of Hom No 2		26.42		90.17	alCum	2000 40				
	Oty of Item No.3		36.13	@		(g/Cum	2890.40				
	Qty of Item No.4		79.29	@	120 K	(g/Cum	9514.80				

703616.00

12405.20

12.41

56697.50

Kgs

MT

No.	Description of works.	Unit	No.	L B	D	Qty	Rate	Amount.
6	KSRB 15-16.1 : Providing and fini paint of approved brand and shar surface to remove all dirt and loo foreign matter cost of materials, lab	de to give a se powdere	n even shad d material, f	de after thoroughl ree from mortar d	y brooming the			
	Schedule Of Rates PWD,Myso	re Circle 20	016-17 (Pa	ge No.120 Item	No.15.53.1)			
	shaft wall	cum	3.141593	1.05	6.39	21.08		
	Shaft Platform	cum	4	2.00	0.55	4.40		
	Baffle wall	cum	3.142 x 2	5.70	4.12	147.55		
	Outer wall	cum	3.142 x 2	12.30	3.65	282.08		
	Walkway slab	cum	3.142 x 2	12.43	0.75	58.55		
						513.66	69.00	35443.00
7	Providing and fixing G.I. pipe railing slab of landings of elevated storagembedding in C.M. pillars with all leads to the control of the cont	ge reservoir	including cu	tting. welding. thre				
	Schedule Of Rates PRE, Myso	re Circle 20	12-13 (Pag	ge No.30 Item N	0.4.7)			
	Walkway slab	Rmt	1	12.80		12.800		
	•					12.800	451.00	5773.00
	of non-poisonous anti-corrosive bit iron and welding)outside Schedule Of Rates PRE,Myso	·						
	M S angle ladder	Rmt	2 2	ge No.23 item N 6.39	0.4.0 a)	12.78	1823.00	23298.00
	m o anglo laddor		-	0.00		- 4	1020.00	20200.00
9	Supply and Delivery of resilient se iron of grade GGG50, wedge fully		-	alves with body, b				
	should be of vaccum tight and 10 14846-2000/ DIN 3202 F4/F5,. (minimum 2 "O" rings). All the valunuts of required numbers as per re	0% leak pro The steam S es Shall be	of with face Sealing Shous supplied with	dimensions as per ald be with toroid	r BS 5163-89/IS al sealing rings			
	14846-2000/ DIN 3202 F4/F5,. 1 (minimum 2 "O" rings). All the valve nuts of required numbers as per reschedule Of Rates KUWS & D	0% leak pro The steam S res Shall be s levant IS PN	of with face Sealing Shou supplied with 16	dimensions as per uld be with toroid suitable size galv	r BS 5163-89/IS al sealing rings anized bolts and			
	14846-2000/ DIN 3202 F4/F5, (minimum 2 "O" rings). All the valunuts of required numbers as per re	0% leak pro The steam S res Shall be s levant IS PN	of with face Sealing Shou supplied with 16	dimensions as per uld be with toroid suitable size galv	r BS 5163-89/IS al sealing rings anized bolts and	1.00	33691.84	33692.00
	14846-2000/ DIN 3202 F4/F5,. 1 (minimum 2 "O" rings). All the valve nuts of required numbers as per residual of Rates KUWS & ENO.II.2.10.2)	0% leak pro The steam S res Shall be levant IS PN DB, Karnata Each	of with face Sealing Shou supplied with 16	dimensions as per uld be with toroid suitable size galv	r BS 5163-89/IS al sealing rings anized bolts and	1.00	33691.84	33692.00
10	14846-2000/ DIN 3202 F4/F5, (minimum 2 "O" rings). All the valvanuts of required numbers as per reschedule Of Rates KUWS & ENo.II.2.10.2)	0% leak pro The steam S res Shall be levant IS PN DB, Karnata Each	of with face Sealing Shou supplied with 16	dimensions as per uld be with toroid suitable size galv	r BS 5163-89/IS al sealing rings anized bolts and	1.00	33691.84	33692.00 1885500.00
10	14846-2000/ DIN 3202 F4/F5, (minimum 2 "O" rings). All the valvanuts of required numbers as per reschedule Of Rates KUWS & ENO.II.2.10.2) 200 mm dia Provision for mechanical equipment	0% leak pro The steam S res Shall be levant IS PN DB, Karnata Each	of with face Sealing Shou supplied with 16 aka Board 2	dimensions as per uld be with toroid suitable size galv	r BS 5163-89/IS al sealing rings anized bolts and	1.00	33691.84	
	14846-2000/ DIN 3202 F4/F5, The continuous of required numbers as per results of required numbers as per results. Schedule Of Rates KUWS & E. No.II.2.10.2) 200 mm dia Provision for mechanical equipments. Sub Estimate Enclosed) Rounding off	0% leak pro The steam S res Shall be s levant IS PN DB, Karnata Each	of with face Sealing Shou supplied with 16 aka Board 2 1.00	dimensions as per uld be with toroid suitable size galv	r BS 5163-89/IS al sealing rings anized bolts and No.18 Item		33691.84	1885500.00

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

Koushik Consultants

Clarifier bridge assemble with end carriage drive, central bearing & slipring unit complete

61	Clarifier bridge assemble with end carriage drive, central	i Deari	ng or sti			_			
Sl. No.	ITEMS	Unit	No	L M	M	D M	Qty	Rate (Rs)	Amount (Rs)
1	Providing, installing and commissioning clarifloculator mechanical and electrical works suitable for WTP of 2.60 MLD as per desing drawing and specification including all lead and lift								
ì	Clarifier zone Providing and fabricating Rotating MS Bridge 1.20 mtr wide structure with girder for supporting paddelequipment, Scraper and revolving trolly arrangement, chequered flooring duly supported on MS angles including necessary welding/riveting, galvanised bolts & nuts required for installation revolving bridge unit including one coat of prmier and epoxy paint in two coats complete.				#S				
	Providing and fixing chequered plate 8mm thick for the bottom flooring of the revolving bridges including including necessary welding/riveting, galvanised bolts & nuts required for installation revolving bridge unit including one coat of prmier and epoxy paint in two coatscomplete.								
	Clarifier bridge assembly comprising of suitable worm Reduction gear box of ISI make Providing Electrical prime consisting of an electrical induction motor of suitable capacity with proper ratio reduction gears for driving the moving bridge including cost of all other necessry spares, galvanised foundation bolts nuts washerever required of all sizes and lengths, lubricants and specials. including cost of carbon steel wheels, shafts and connecting rod etc. complete								
	installing electrical equipment in a closed out door M.S cubical for revolving paddales including cost of cabon brush connectors and cost of all assemble for making Electrial connection to moving bridge driving motors and floculator paddle motors with ligting arrangement to clarifier unit etc.complete with all the required materials like armoured cable for main &motor connections, motor starters, switches, revolving power connection unit, earthing etc complete for revolving bridge and naddle units. Providing Traction drive unit comprising of carbon steel wheels running on MS square track								
	including cost of galvanised foundation bolts nuts washers as required of all sizes and lengths Providing and fixing 3 phase 440 V slipring unit including cost of all electrical fittings ,spares and specials, including cost of galvanised foundation bolts nuts washerever required of all sizes								
	and lengths Providing and fixing central bearing of ball thrust bearing /roller bearing including cost of installation and fixing charges including cost of galvanised foundation bolts nuts washerever required of all sizes and lengths Providing and fixing stainless steel -308 Grade sludge scrapper with Rubber scraper and stainless steel scrapper plate and neuroplane rubber squeezes including cost of epoxy paint etc.				<u>.</u>				
2	Complete Floculator Zone	-					-	_	
	Providing and fixing floculators mounted on bridge unit shall ratate independently of clarifier movement and independant of each other with worm reduction gear of ISI make. Providing Electrical prime consisting of an electrical induction motor of suitable capacity with proper ratio reduction gears for driving the floculator paddles.including stainless steel paddles mounted on stainless steel vertical shaft of SS 308 grade including cost of all other necessry spares, galvanised foundation bolts nuts washerever								
	required of all sizes and lengths, lubricants and specials, including cost of two coats of epoxy painting over one coat of epoxy primer for all the components which submerged under water during execution. Installing testing and commissioning of reduction gear system for floculator moving bridge to								
	have the required movemnet Supplying and laying of LT UG cable having alluminium conductor, PVC insulated sheathing, galvanised, steel wire / steel tape armoured cable with PVC outer sheathing 1.1 KV class								
	Supply and delivery of brand new pvc insulated cable of flat 3 core (sheathed) of nominal cross sectional area 2.5mm confirming to IS 694-1997 with latest amendments and with ISI mark								
	Providing and fixing 600×750 mm wooden boards made out of 75 mm $\times 25$ mm alround Nandi or Mathi wood petty, 20 mm plywood for back covering and 20 mm thick new wood board for front face with hinges and locking arrangements including providing indicator lamps.								
	Providing and fixing triple pole switch of standard company 30 to 32 amps Providing and fixing MCB 32 to 63 amps triple pole Supply and delivery of Meter Board Unit one number M.S. Box of size 1200 x750 x 150 mm fabricated out of 2 mm thick sheet metal with sealable door and arrangement for mounting CT's (if any) to connect 3 phases/ 4 Wire energy meter cable box etc., complete.								49
	Supplying push button operated direct on line starter with an antiweld silver cadmium oxide contacter with replaceable fixed and moving contacts and bimetallic thermal overload relay held in anticorrosive treated sheet steel or iron clad enclosure and fixing the same to suitable canacity wires for 400/440volts 3 nhase motor/single phase motor. One No. of brand new best make single phase preventor as per ISI: 3231 with latest								
	amendments. One No. of brand new best make Volt metre of range 0 - 600 Volts as per IS: 1248 with latest amendments. One No. of brand new best make Ammeter 0 to 30 amps conforming to IS: 1248 as per latest amendments						20		
	Up to 6 HP - 0 to 30 Amps Supply and delivery of best indigenous brand new Power Capacitor as per IS 2834 - 1986 with latest amendments with ISI mark of required capacity tested and approved by the KEB authorities and erection, electrification and commissioning the same at the location of the respective numbers.								
	Erection of Panel Board and Meter Board unit with all necessary materials and labour complete work.								
	Danger Board: Danger Board conforming to KEB standard, should be provided on the panel.panel board and meter board shall be mounted on extra sheet metal of 2 mm thick and screwed on to the box as specified above with proper space in between. This complete unit shall be mounted on the M.S. angle of size 65x65x8 mm fabricated pedestal and epoxy painted with rust resistand primer and two coats of ash grey/olive green paints. These two units specified above with a proper space in between the box shall be provided with cable entry and exist hole at the bottom purpoked and rubber bushes retained in position so that they could be used as								
	at the bottom punched and rubber bushes retained in position so that they could be used as and when required. Complete panel wiring should be done with cable as per IS: 694 - 1990 with lotest amendments.								

SI. No.	I FEMS	Unit	No	L M	W	D M	Qty	Rate (Rs)	Amount (Rs)
	EARTHING: Supplying and fixing and wiring earth electrode for grounding circuit IC cut-outs and other equipments on the meter board in the pit. The pit should be filled with equal proportion of salt and charcoal 150 mm alround the pipe to complete depth. The connections from the pipe to the conduits etc., is to be established through G.I. wire of size as per clause 7.3.3 of IS 732 using 12 mm bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes 12 mm dia TRIAL RUNNING: Free trial running should be carried out for a period of 30 days.								
\vdash	1	No	1 1			l	Total:	1885500.00	1885500.00 1885500.00
\vdash	4.00						Roundir	ng Off	1883300.00
							Say:		1885500.00

Callangrate

Assistant Executive Engineer PRE sub Division Stirangapatna

Executive Engineer PRE Division Mandya

SUB ESTIMATE: CONSTRUCTION OF RAPID SAND FILTER

-	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Earth work excavation for foundati exceeding 50 mtrs and with a lift danger lighting etc., complete By M	upto 1.50 m	trs. Includi						
	Schedule Of Rates PRE, Mysolin Hard Soil	re Circle 20)12-13 (P	age No.1 Ite	m No.1.1)			
	CC wall	cum	1	54.60	0.90	1.05	51.60		
	BBM wall	cum	1	20.35	0.90	1.05	19.23		
	Pipe gallary	cum	1	3.60	5.70	0.50	10.26		
	For column	cum	12	1.50	1.50	1.50	40.50		
	r or column	cum	6	1.50	1.50	1.50	20.25		
	Deduct for columns	cum	-12	0.90	0.90	1.05	-10.21		
	Deduct for columns	cum	-6	0.90	0.90	1.20	-5.83		
		Cum	-0	0.30	0.50	1.20_	125.80	171.00	21512.
2	by using hand mixers, curing etc. c	omplete as p	er specific	ations. Cemen	t concrete	M10			
	Schedule Of Rates PRE, Myso	re Circle 20)12-13 (F	age No.6 Ite	m No.2.1)			
	CC wall	cum	1	54.60	0.90	0.15	7.37		
	BBM wall	cum	1	20.35	0.90	0.15	2.75		
	Pipe gallary	cum	1	3.60	5.70	0.15	3.08		
	For column	cum	12	1.50	1.50	0.15	4.05		
		cum	6	1.50	1.50	0.15	2.03		
	Deduct for columns	cum	-12	1.20	1.20	0.15	-2.59		
		cum	-6	1.20	1.20	0.15	-1.30		
		Cutti				_	45.00	3864.00	
		Cum					15.39	3004.00	59467.
3	(a) Providing and laying vibrated is size of approved gradation hard laggregate, including, cost and coplywood/steel form work, centering proportion, 20mm. thick for inside proportion of approved quality construction joints wherever necessary complete (excluding cost of reinformake his own arrangements for provided in the size of the size o	M30 design of the proken granical conveyance of the proken granical control of the granical control of the proken granical control of the proken granical control of the granical	mix for R.C te, trap, bate f all mater ing, ceme dure of wate reigh bate giving sati floor slab,	C.C. Works wit asalt or any o rials with all le nt mortar, pla ater proof cor h plant mixin sfactory water resting on gro	ther approperation astering in a stering in a stering in a stering of a stering or a stering or a stering or a stering of the	ved hard including CM 1:3 requisite making etc.,	15.39	3004.00	59467.
3	size of approved gradation hard I aggregate, including, cost and coplywood/steel form work, centeri proportion, 20mm. thick for inside proportion of approved quality construction joints wherever necessary complete (excluding cost of reinformake his own arrangements for proportion of the proportion of approved quality construction joints wherever necessary complete (excluding cost of reinformake his own arrangements for proportion of the pro	M30 design or	mix for R.C te, trap, ba f all mater ing, ceme ture of wa reigh batc giving sati floor slab, r for testing	C.C. Works with asalt or any orials with all lent mortar, plater proof corth plant mixing factory water resting on group) (Cement @	ther approper the additional terms of the astering in appound of an approper the ap	ved hard including CM 1:3 requisite, making ting etc., ractor will		3004.00	59467.
3	size of approved gradation hard I aggregate, including, cost and coplywood/steel form work, centering proportion, 20mm. Thick for inside proportion of approved quality construction joints wherever necessary complete (excluding cost of reinformake his own arrangements for proportion of the proportion of approved quality construction joints wherever necessary complete (excluding cost of reinformake his own arrangements for proportion of the proportion of approved quality construction joints wherever necessary construction is a second to the proportion of	oroken grani onveyance or ong, scaffold e with admini- including wassary and decement) for occuring water	mix for R.C te, trap, ba f all mater ing, ceme ature of wa reigh batc giving sati floor slab, r for testing	C.C. Works with asalt or any orials with all lend in the mortar, place after proof corth plant mixing factory water resting on group) (Cement @ 55.05	ther approper the additional terms of the astering in a stering in a s	ved hard including CM 1:3 requisite, making ting etc., ractor will	12.39	3004.00	59467.
3	size of approved gradation hard I aggregate, including, cost and coplywood/steel form work, centeri proportion, 20mm. thick for inside proportion of approved quality construction joints wherever necessary complete (excluding cost of reinformake his own arrangements for proportion of the proportion of approved quality construction joints wherever necessary complete (excluding cost of reinformake his own arrangements for proportion of the pro	on/30 design of proken grant on the proken grant on the proken grant on the proken grant of the proken gra	mix for R.C te, trap, be f all mater ing, ceme dure of we reigh batc giving sati floor slab, r for testing aka Board	C.C. Works with asalt or any orials with all light mortar, plater proof corth plant mixing sfactory water resting on group) (Cement @ 55.05	ther approper the add & lift, astering in appound of a approper proof test and. (continued). (Page No. 0.75	ved hard including CM 1:3 requisite, making ting etc., ractor will	12.39 7.78	3004.00	59467.
3	size of approved gradation hard I aggregate, including, cost and coplywood/steel form work, centeri proportion, 20mm. thick for inside proportion of approved quality construction joints wherever necessary complete (excluding cost of reinformake his own arrangements for proportion of approved quality construction joints wherever necessary complete (excluding cost of reinformake his own arrangements for proposed to the proposed propo	of M30 design of proken grant on veyance of the manner of the with admix including we assary and occurring water occurring wat	mix for R.C te, trap, ba f all mater ing, ceme cture of wa reigh batc giving sati floor slab, r for testing 1 12 6	C.C. Works with asalt or any orials with all lent mortar, plater proof corth plant mixing sfactory water resting on group) (Cement @ 55.05 1.20 1.20	ther approper the additional terms of the additional t	ved hard including CM 1:3 requisite making ting etc., ractor will 0.43 0.45 0.45	12.39 7.78 3.89	3004.00	59467.
3	size of approved gradation hard I aggregate, including, cost and coplywood/steel form work, centering proportion, 20mm. Thick for inside proportion of approved quality construction joints wherever necessary complete (excluding cost of reinformake his own arrangements for proportion of the proportion of approved quality construction joints wherever necessary complete (excluding cost of reinformake his own arrangements for proportion of the proportion of approved quality construction joints wherever necessary construction is a second to the proportion of	on/30 design of proken grant on the proken grant on the proken grant on the proken grant of the proken gra	mix for R.C te, trap, be f all mater ing, ceme dure of we reigh batc giving sati floor slab, r for testing aka Board	C.C. Works with asalt or any orials with all light mortar, plater proof corth plant mixing sfactory water resting on group) (Cement @ 55.05	ther approper the add & lift, astering in appound of a approper proof test and. (continued). (Page No. 0.75	ved hard including CM 1:3 requisite, making ting etc., ractor will	12.39 7.78	3004.00	59467.

Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.			
Description of works. Unit No. L B D Qty Rate Amount. (b) Providing and laying vibrated M30 design mix for R.C.C. Works with 20 mm and down size of approved gradation hard broken granite, trap, basalt or any other approved hard aggregate, including, cost and conveyance of all materials with all lead & lift, including plywood/steel form work, centering, scaffolding, cement mortar, plastering in CM 1:3 proportion, 20mm. thick for inside with admixture of water proof compound of requisite proportion of approved quality including weigh batch plant mixing, curing, making construction joints wherever necessary and giving satisfactory water proof testing etc., complete (excluding cost of reinforcement) for for vertical side walls, alround effluent channel, baffels, etc. complete with outsideform finishing (Cement @ 400 Kgs). Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.43											
Schedule Of Rates KUWS & D	B, Karnata	ka Board	i 2018-2019 ((Page No	.43						
CC wall	cum	1	56.40	0.30	4.50	76.14					

2.70

0.30

3.45

87.32

14810.88

8184.96

102967.00

1293286.00

(a) Providing and laying vibrated M30 design mix for R.C.C. Works with 20 mm and down size of approved gradation hard broken granite, trap, basalt or any other approved hard aggregate, including, cost and conveyance of all materials with all lead & lift, including plywood/steel form work, centering, scaffolding, cement mortar, plastering in CM 1:3 proportion, 20mm. thick for inside with admixture of water proof compound of requisite proportion of approved quality including weigh batch plant mixing, curing, making construction joints wherever necessary and giving satisfactory water proof testing etc., complete (excluding cost of reinforcement) for floor slab, resting on ground. (contractor will make his own arrangements for procuring water for testing) (Cement @ 400 Kgs).

cum

SI. No.

Middle wall

Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.43 Item No.III.2.4.a)

item No.III.2.4.a j							
RSF	cum	4	3.30	2.70	0.20	7.13	
Corridor	cum	1	3.60	5.70	0.15	3.08	
For Manifold	cum	4	3.30	0.50	0.50	3.30	
				(0.	3x0.3)		
Deduct for pipe	cum	-4	3.30	0.79	0.09	-0.93	
						12.58	

(a) Providing and laying vibrated M30 design mix for R.C.C. Works with 20 mm and down size of approved gradation hard broken granite, trap, basalt or any other approved hard aggregate, including, cost and conveyance of all materials with all lead & lift, including plywood/steel form work, centering, scaffolding, cement mortar, plastering in CM 1:3 proportion, 20mm. thick for inside with admixture of water proof compound of requisite proportion of approved quality including weigh batch plant mixing, curing, making construction joints wherever necessary and giving satisfactory water proof testing etc., complete (excluding cost of reinforcement) for floor slab, resting on ground. (contractor will make his own arrangements for procuring water for testing) (Cement @ 400 Kgs).

Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.43 Item No.III.2.4.a)
Bottom

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
	Raw water Inlet Channel-1	cum	1	3.60	0.65	0.10	0.23		
	Raw water Inlet Channel - 2	cum	2	5.05	0.55	0.10	0.56		
			4x2						
	Wash water troughs (Cross)	cum	8	0.60	2.70	0.10	1.30		
			4x2	7(4					
	Wash water troughs (Central)	cum	8	0.70	0.70	0.10	0.39		
						_	2.48	8184.96	20299.00

(b) Providing and laying vibrated M30 design mix for R.C.C. Works with 20 mm and down size of approved gradation hard broken granite, trap, basalt or any other approved hard aggregate, including, cost and conveyance of all materials with all lead & lift, including plywood/steel form work, centering, scaffolding, cement mortar, plastering in CM 1:3 proportion, 20mm. thick for inside with admixture of water proof compound of requisite proportion of approved quality including weigh batch plant mixing, curing, making construction joints wherever necessary and giving satisfactory water proof testing etc., complete (excluding cost of reinforcement) for for vertical side walls, alround effluent channel, baffels, etc. complete with outsideform finishing (Cement @ 400 Kgs).

Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.43 Item No.III.2.4.b)

5	IQ	e	S
_	۰.		

cum	1	3.60	0.10	0.50	0.18		
cum	2	5.05	0.10	0.50	0.51		
cum	4 4x6	2.70	0.10	1.80	1.94		
cum	24 4x4	1.10	0.10	1.80	4.75		
cum	16	0.70	0.10	1.80	9.40	14810.88	139222.00
	cum	cum 2 cum 4 4x6 cum 24 4x4	cum 2 5.05 cum 4 2.70 4x6 cum 24 1.10 4x4	cum 2 5.05 0.10 cum 4 2.70 0.10 4x6 cum 24 1.10 0.10 4x4	cum 2 5.05 0.10 0.50 cum 4 2.70 0.10 1.80 4x6 cum 24 1.10 0.10 1.80 4x4	cum 2 5.05 0.10 0.50 0.51 cum 4 2.70 0.10 1.80 1.94 4x6 cum 24 1.10 0.10 1.80 4.75 4x4 cum 16 0.70 0.10 1.80 2.02	cum 2 5.05 0.10 0.50 0.51 cum 4 2.70 0.10 1.80 1.94 4x6 cum 24 1.10 0.10 1.80 4.75 4x4 cum 16 0.70 0.10 1.80 2.02

KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.16 Item No.4.32)

Columns	Sqm	12	1.20	3.00	43.20		
	Sqm	6	1.06	3.00	19.08		
	Sqm	4	1.06	7.54	31.97		
Canopy columns	Sqm	2	0.92	3.15	5.80		
					100.05	366.00	36618.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
8	KSRB 4-6.7 :Providing and remov removal of form work for sides and bressumers and lintels not exceed complete as per specificaitons. Spec	soffits of b	eams, bear depth includ	n haunchings ling cost of a	s, cantileve	r girders,			
	Schedule Of Rates PWD, Mysor	e Circle 2	016-17 (P	age No.16 I	tem No.4	.34)			
	Plinth Beam	Sqm	1 x 2	20.35		0.10	4.08		
	Lintels Bottom								
	Ground Floor	Sqm	1	21.69	0.23		4.99		
	First floor	Sqm	1	57.77	0.23		13.29		
	Lintels sides								
	Ground Floor	Sqm	1 x 2	21.69		0.15	6.50		
	First Floor	Sqm	1 x 2	57.77		0.15	17.34		
	Beam Bottom								
	Ground Floor								
	BBM Wall	Sqm	2	21.69	0.23		9.98		
	First Floor								
	BBM Wall	Sqm	1	57.77	0.23		13.29		
	Inspection Gallary Beams	Sqm	3	3.60	0.23		2.48		
		Sqm	4	2.70	0.23		2.48		
	Beam sides								
	Ground Floor								
	BBM Wall	Sqm	2 x 2	21.69		0.23	19.96		
	First Floor								
	BBM Wall	Sqm	1 x 2	57.77		0.23	26.58		
	Inspection Gallary Beams	Sqm	3 x 2	3.60		0.23	4.96		
		Sqm	4 x 2	2.70		0.23_	4.96		
						_	130.89	256.00	33507.00

 ${\sf KSRB\ 4-6.9\ :} Providing\ and\ removing\ centering,\ shuttering,\ strutting,\ propping\ etc.,\ for$ edges of slabs and breaks in floor, cills, plinth including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.17 Item No.4.36)

Ground Floor					
Filter Area					
Roof Slab	Sqm	1	14.00	6.30	88.20
Rear Balcony	Sqm	1	4.20	1.00	4.20
Deduction	Sqm	-4	3.30	2.10	-27.72
	Sqm	-4	1.30	0.75	-3.90
Front portion Roof Slab	Sqm	1	9.32	2.63	24.51
Dedct for Staircase	Sqm	-1	2.40	2.40	-5.76
	Sqm	1	4.06	1.50	6.09
Portico	Sqm	1	4.06	2.50	10.15

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
	First floor								
	Filter Area	Sqm	1	15.20	7.50		114.00		
	Front portion Roof Slab	Sqm	1	10.52	2.63		27.67		
		Sqm	1	5.26	1.50		7.89		
							245.33	678.00	166333.00

KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Rates for centering height more than 3.5 mtrs.

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Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.15 Item No.4.29.2)

1st flight	Sqm	1	3.70	1.50		5.55		
2nd flight	Sqm	1	3.35	1.50		5.03		
Landing	Sqm	1	1.50	3.30		4.95		
					1	5.53	550.00	8541.00

KSRB 4-6.9 :Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor, cills, plinth including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.17 Item No.4.36)

Ground floor							
Filter Area	Sqm	1	31.28	0.15	4.69		
Balcony	Sqm	1	2.00	0.15	0.30		
Filter area inside	Sqm	4	10.80	0.15	6.48		
	Sqm	4	2.60	0.15	1.56		
Front Portion	Sqm	1	14.58	0.15	2.19		
	Sqm	1	8.10	0.15	1.22		
	Sqm	2	3.00	0.15	0.90		
Canopy	Sqm	1	9.06	0.15	1.36		
Staircase							
flight sides	Sqm	1	3.70	0.45	1.67		
	Sqm	1	3.35	0.45	1.51		
Landing	Sqm	1	6.30	0.15	0.95		
					22.83	678.00	15478.00

SI.	Description of works	l lm!A	Ma				04	D-4	
No.	Description of works.	Unit	No.	L	В	U	Qty	Rate	Amount.

KSRB 4.2.8: Providing and laying in position reinforced cement concrete of mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fline aggregates @ 0.46cum, with superplastisiser @ 3lts conforming to IS9103-1999 Reaffirmed-2008, machline mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pilars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machlinery, curing, completebyt excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.13 Item No.4.13)

а	Columns						
		Cum	12	0.30	0.30	3.00	3.24
		Cum	6	0.23	0.30	3.00	1.24
		Cum	4	0.23	0.30	7.54	2.08
	Portico columns	Cum	2	0.23	0.23	3.15	0.33
							6.89
b	Plinth Beam	cum	1	20.35	0.45	0.10	0.92
							0.92
С	Lintel beam						
	Ground Floor	cum	1	21.69	0.23	0.15	0.75
	First floor	cum	1	57.77	0.23	0.15	1.99
							0.75
d	Beams						
	Ground Floor						
	BBM Wall	cum	2	21.69	0.23	0.23	2.29
	First Floor						
	BBM Wall	cum	1	57.77	0.23	0.23	3.06
	Inspection Gallary Beams	cum	3	3.60	0.23	0.23	0.57
		cum	4	2.70	0.23	0.23	0.57
е	Staircase					_	6.49
	Footing	cum	1	0.30	1.50	0.60	0.27
	1st flight	cum	1	3.70	1.50	0.15	0.83
	2nd flight	cum	1	3.35	1.50	0.15	0.75
	Landing	cum	1	3.30	1.73	0.15	0.86
	Steps (1/2 x 19)	cum	9.5	0.30	0.15	0.15	0.06
							2.77
е	Roof slab					_	
	Ground Floor						
	Filter Area						
	Roof Slab	cum	1	14.00	6.30	0.15	13.23
	Rear Balcony	cum	1	4.20	1.00	0.15	0.63
	Deduction	cum	-4	3.30	2.10	0.15	-4.16
		cum	-4	1.30	0.75	0.15	-0.59
	Front portion Roof Slab	cum	1	9.32	2.63	0.15	3.68
	Dedct for Staircase	cum	-1	2.40	2.40	0.15	-0.86
100		cum	1	4.06	1.50	0.15	0.91

l. o.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
Po	rtico	cum	1	4.06	2.50	0.15	1.52		
Fin	st floor								
Filt	ter Area	cum	1	15.20	7.50	0.10	11.40		
Fro	ont portion Roof Slab	cum	1	10.52	2.63	0.10	2.77		
		cum	1	5.26	1.50	0.10	0.79		
						_	29.32		
Ne	ot Quantity =					_	47.14	6158.00	290288.0
	RB 5.1-3 : Providing and const		•			•			
	undation with cement mortar 1:0 urse including cost of materials, li								

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.25 Item No.5.3)

item No.5.3)								
Ist step	cum	1	20.65	0.75	0.45	6.97		
2nd	cum	1	20.95	0.60	0.45	5.66		
Partition wall	cum	1	0.00	-0.15	0.45	0.00		
Deduct for columns	cum	-4	0.23	0.30	0.90	-0.25		
						12.38	3249.00	40222.00

KSRB 5.3-3: Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than
 14 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.25 Item No.5.9)

cum 1 21.25 0.45 0.45 4.30 5005.00 21521.00

KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. No. KBS 2.9

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.6 Item No.2.10)

CUM 125.80 127.00 15976.00

SI.	Description of words	11-:4	Na	•	D		04.	Dete	A
No.	Description of works.	Unit	No.	L	В	U	Qty	Rate	Amount.

KSRB 6-2.3: Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.29 Item No.6.6)

Alround								
Ground Floor	cum	1	21.69	0.23	3.00	14.97		
First floor	cum	1	57.77	0.23	3.00	39.86		
						54.83		
Deductions								
Ground Floor								
D	cum	2	1.00	0.23	2.10	0.97		
W	cum	4	1.50	0.23	1.20	1.66		
RS	cum	1	3.00	0.23	2.40	1.66		
Columns	cum	4	0.23	0.30	2.77	0.76		
Lintel	cum	1	21.69	0.23	0.15	0.75		
Beam	cum	1	21.69	0.23	0.23	1.15		
First Floor								
D	cum	1	1.00	0.23	2.10	0.48		
W	cum	11	1.50	0.23	1.20	4.55		
Columns	cum	18	0.23	0.23	2.77	2.64		
Lintel	cum	1	57.77	0.23	0.15	1.99		
Beams	cum	1	57.77	0.23	0.23	3.06		
					Đ.	19.67		
	Net Q	uantity =	54.83	-	19.67	35.16	6685.00	235044.00

KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.16 Item No.4.34)

Ground Floor							
W	Sqm	4	1.65	0.60	3.96		
RS	Sqm	1	3.15	0.60	1.89		
First Floor							
D	Sqm	1	1.15	0.60	0.69		
W	Sqm	11	1.65	0.60	10.89		
					17.43	256.00	4462.00

						<u> </u>			
SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
18	KSRB 4.2.10 : Providing and laying in M20 with OPC cement @ 24kgs, with aggregates @0.5175cum and fline @0.225lts, machline mixed, well compupto ground floor level, including cost of Schedule Of Rates PWD, Mysore Control of the Pwd, Myso	12mm a aggrega acted for f all mate	nd down siz ates @ 0.3 plain chejja rials, labour,	te graded g 345cum, wi of 7.5 cms. HOM of ma	ranite meta th superplate average the achlinery, fin	I coarse astisiser ickness, iishing,			
	Ground Floor								
	W	sqm	4	1.65	0.60		3.96		
	RS First Floor	sqm	1	3.15	0.60		1.89		
	D	sqm	1	1.15	0.60		0.69		
	W	sqm	11	1.65	0.60		10.89		
							17.43	456.00	7948.00
19	bottom rail, with interlocking arranger suspension shaft with High tension or designed pipe shaft, with bracket plat inside & outside locking with push & puhandles with all fittings and accessorie cover) cost of materials, labour, HOM of size 3mx2.8 m Specification No. KBS 7	oil type s es, guide Il operati es, painte of machli .10 / 7.12	prings two rechannels, ons completed with a coanery completed	numbers, mo ball bearing e including p at of red lea ee as per sp	ounted on so arrangeme oulling hook: d paint (witl ecifications.	specially ents, for s, 4Nos. hout top Shutter			
	RS	Sqm	1	3.00		2.400	7.20	2862.00	20606.00
20	KSRB 7.6 : Providing and fixing top co push rolling shutters bent to shape in materials, labour, HOM of machlinery of 7.10.6 / 7.12	ncluding	cost of red	lead prime	coat of pa	ainting ,			
	Schedule Of Rates PWD, Mysore	Circle 20	016-17 (Pa	ge No.35 l	tem No.7.6	6)			
	RS	Rmt	1	3.30		_	3.30	473.00	1560.00

No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
21	KSRB 9.4-3 : Providing Mathi / Nan ventilators and other frames, wro groves (excluding cost of cemer materials, labour, HOM of machline KBS 9.33	ught, frame it concrete	ed or asse and side	mbled includ	ing makir it includin	g plaster g cost of		- 100	
	Schedule Of Rates PWD,Myson	re Circle 2	016-17 (P	age No.54	tem No.9).12)			
	PWD SR 2013-14 P.No.44 I.No.9.13	2							
	D	Cum	2	6.50	0.100	0.075 	0.10	80792.00	8079.00
22	KSRB 9.5-3 : Providing and fixing doors, styles and rails of 40mm. th styles 100mm wide as per drawing labour, HOM of machlineries comp Specification No. KBS 9.34	ick with bot and panels	tom and lo	ck rails 180m thick includir	m wide to g cost of	p rail and materials,			
	Schedule Of Rates PWD,Myson	re Circle 2	016-17 (F	age No.54	tem No.9).16)			
	D	sqm	2	0.90		2.00_	3.60	3925.00	14130.00
23	KSRB 7.7 : Providing and fixing in and ventilators side hung/top hung of 25x33x3mm, weighing 1.419 Kg section of size 25x46x3mm. weigweighing 0.839 kg/m for glazing providing and fixing 4mm. thick resteel sections should confirm to I.S should be cut to length welded and tenonned and revetted into the francleaned free of rust and painted with coats of ready mix paint of approver labour and HOM of machlinery com/7.12.2/7.12.3/7.12	fully openate /m both for hing 2.28K of windows eded glass 7452:1990, if electrically nes electrically one coated colour ar	ole as per a outer and g/m duly p not more with teakw 4nos. of he grinded so ally. All the of anti-corred make incorred	pproved draw inner frames providing T s than 34 cm bod beading oldfasts of ap ubdividing fra steel surface osive paint a cluding cost of	rings using and centre section 19 s. c to c of require proved size mes of un shall be to dinishing functions.	y Z angles al mullion x19x3mm including d size, all e, section it shall be horoughly g with two s, fixtures,			
	Schedule Of Rates PWD,Myso	re Circle 2	016-17 (F	Page No.35	tem No.7	7.7)			
	Schedule Of Rates PWD, Myso	re Circle 2	016-17 (F	Page No.35	tem No.7	7.7)			
		re Circle 2 sqm	016-17 (F	1.50	tem No.7	1.20	7.20		

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
24	KSRB 4-1.3 : Providing and laying cement @ 180kgs, with 40mm ar @0.85cum and fine aggregates @ in layers not exceeding 15 cms. the materials, labour, HOM of machine No. KBS 4.1, 4.2 (Page No.12 Item	nd down siz 0.57cum m lick, well col ery, curing c	e graded achine mix mpacted, in	granite metal ed, machine r n foundation,	coarse ag nixed, cond including c	gregates crete laid ost of all			
	Schedule Of Rates PWD,Myso Item No.4.3)	re Circle 2	016-17 (F	Page No.12					
	Room	Cum	1	2.40	2.40	0.10	0.58		
	Entrance	Cum	1	3.60	3.90	0.10	1.40		
	Staircase	Cum	1	2.40	2.40	0.10	0.58		
	Canopy	Cum	1	4.06	2.50	0.10	1.02		
	• •					_	3.58	4867.00	17423.00
25	KSRB15-3-13: Providing 12mm thi to ceiling including rounding off co and removing scaffolding, including specifications.	mers where	ever requir	ed smooth re	ndering, : F	Providing			
	Schedule Of Rates PWD,Myso	re Circle 2	016-17 (F	Page No.116	Item No.	15.21)			
		re Circle 2	016-17 (F	Page No.116	Item No.	15.21)			
	Schedule Of Rates PWD,Myso Ground floor Room		016-17 (F 1			15.21)	5.76		
	Ground floor	sqm	·	2.40	2.40	15.21)	5.76 14.04		
	Ground floor Room	sqm sqm	1	2.40 3.60	2.40 3.90	15.21)	14.04		
	Ground floor Room Entrance	sqm sqm sqm	1	2.40 3.60 3.70	2.40 3.90 1.50	15.21)	14.04 5.55		
	Ground floor Room Entrance	sqm sqm sqm sqm	1 1 1	2.40 3.60	2.40 3.90	15.21)	14.04		
	Ground floor Room Entrance	sqm sqm sqm sqm	1 1 1	2.40 3.60 3.70 3.35	2.40 3.90 1.50 1.50 1.50	15.21)	14.04 5.55 5.03 4.95		
	Ground floor Room Entrance Staircase	sqm sqm sqm sqm sqm	1 1 1 1	2.40 3.60 3.70 3.35 3.30 4.06	2.40 3.90 1.50 1.50 1.50 2.50	15.21)	14.04 5.55 5.03 4.95 10.15		
	Ground floor Room Entrance Staircase Canopy	sqm sqm sqm sqm	1 1 1 1	2.40 3.60 3.70 3.35 3.30	2.40 3.90 1.50 1.50 1.50	15.21)	14.04 5.55 5.03 4.95		
	Ground floor Room Entrance Staircase Canopy Pipe Gallary	sqm sqm sqm sqm sqm sqm	1 1 1 1 1	2.40 3.60 3.70 3.35 3.30 4.06	2.40 3.90 1.50 1.50 1.50 2.50 6.00	15.21)	14.04 5.55 5.03 4.95 10.15 21.60		
	Ground floor Room Entrance Staircase Canopy Pipe Gallary Filter Portion	sqm sqm sqm sqm sqm	1 1 1 1	2.40 3.60 3.70 3.35 3.30 4.06 3.60	2.40 3.90 1.50 1.50 1.50 2.50	15.21)	14.04 5.55 5.03 4.95 10.15		
	Ground floor Room Entrance Staircase Canopy Pipe Gallary Filter Portion Central walkway Over Outlet chamber	sqm sqm sqm sqm sqm sqm	1 1 1 1 1 1	2.40 3.60 3.70 3.35 3.30 4.06 3.60	2.40 3.90 1.50 1.50 1.50 2.50 6.00	15.21)	14.04 5.55 5.03 4.95 10.15 21.60		
	Ground floor Room Entrance Staircase Canopy Pipe Gallary Filter Portion Central walkway	sqm sqm sqm sqm sqm sqm	1 1 1 1 1 1	2.40 3.60 3.70 3.35 3.30 4.06 3.60	2.40 3.90 1.50 1.50 1.50 2.50 6.00	15.21)	14.04 5.55 5.03 4.95 10.15 21.60		

1

1

1

2

2

sqm

sqm

sqm

sqm

sqm

3.60

2.63

13.54

10.43

14.00

3.90

2.40

5.84

0.60

0.60

14.04

6.31

79.07

12.52

16.80

234.58

193.00

Entrance

Staircase

Pipe Gallary

Outer projection Left side & right side

Front & rear side

45273.00

٥.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
	KSRB15-3.9 :Providing 18mm thic								
_	brick masonry including rounding	-		•		-			
6	Providing and removing scaffolding per specifications.	ng, including (cost of mat	erials, labour,	curing o	omplete as			
	per specifications.								
	Schedule Of Rates PWD, Mys	ore Circle 2	016-17 (I	Page No.116	Item N	o.15.17)			
	Ground floor								
	Room	sqm	1	9.60		3.00	28.80		
	Entrance	sqm	1	11.40		3.00	34.20		
	Staircase	sqm	1	7.66		3.00	22.98		
	Pipe Gallary	sqm	1	15.60		3.00	46.80		
		04	,	70.00		0.00	10.00		
	First floor								
	Room	sqm	1	9.60		3.00	28.80		
	Entrance	sqm	1	11.40		3.00	34.20		
	Staircase	sqm	1	7.66		3.00	22.98		
	Pipe Gallary	sqm	1	35.16		3.00_	105.48		
							324.24		
	Deductions								
	Ground Floor								
	D	sqm	-2	1.00		2.10	-4.20		
	W	sqm	-4	1.50		1.20	-7.20		
	RS	sqm	-1	3.00		2.40	-7.20		
	First Floor								
	D	sqm	-1	1.00		2.10	-2.10		
	W	sqm	-11	1.50		1.20_	-19.80		
						_	283.74	198.00	56180.
7	KSRB15-7 : Providing lime rend		•	wall and ceilir	ng, includ	ling cost of			
27	KSRB15-7: Providing lime rend materials, labour, curing complete Schedule Of Rates PWD,Mys	e as per speci	fications.			-			
27	materials, labour, curing complete Schedule Of Rates PWD,Mys	e as per speci	fications.	Page No.124	I Item N	-			
27	materials, labour, curing complete Schedule Of Rates PWD,Mys Ceiling	e as per speci sore Circle 2 sqm	fications. 2016-17 (Page No.124	I Item N	-	234.58		
27	materials, labour, curing complete Schedule Of Rates PWD,Mys	e as per speci	fications. 2016-17 (Page No.124	I Item N	-	283.74		
27	materials, labour, curing complete Schedule Of Rates PWD,Mys Ceiling	e as per speci sore Circle 2 sqm	fications. 2016-17 (Page No.124	I Item N	-		25.00	12958.
27	materials, labour, curing complete Schedule Of Rates PWD,Mys Ceiling Inside Walls	e as per speci sore Circle 2 sqm sqm	CO16-17 (Quantity v	Page No.124 vide Item No. 2 vide Item No. 2	1 Item N 25 26	o.15.33) — —	283.74	25.00	12958.
	materials, labour, curing complete Schedule Of Rates PWD,Mys Ceiling	sore Circle 2 sqm sqm hick cement p	Quantity volumes of the control of t	Page No.124 vide Item No. 2 vide Item No. 2 ngle coat with ver required	ttem N 25 26 a cement smooth	o.15.33)	283.74	25.00	12958.
	materials, labour, curing complete Schedule Of Rates PWD,Mys Ceiling Inside Walls KSRB15-3.3: Providing 12mm to brick masonry including roun Providing and removing scaffoldi	sore Circle 2 sqm sqm sqm hick cement p	Quantity v Quantity v Quantity v laster in si ers where cost of ma	Page No.124 vide Item No. 2 ride Item No. 2 ngle coat with ver required terials, labour	ttem N 25 26 a cement smooth a, curing o	o.15.33) mortar 1:6, rendering, : complete as	283.74	25.00	12958.
	materials, labour, curing complete Schedule Of Rates PWD,Mys Ceiling Inside Walls KSRB15-3.3: Providing 12mm to to brick masonry including roun Providing and removing scaffoldi per specifications.	sqm sqm sqm hick cement p nding off corning, including	Quantity v Quantity v Quantity v laster in si ers where cost of ma	Page No.124 vide Item No. 2 ride Item No. 2 ngle coat with ver required terials, labour	ttem N 25 26 a cement smooth a, curing o	o.15.33) mortar 1:6, rendering, : complete as	283.74	25.00	12958.
	Ceiling Inside Walls KSRB15-3.3: Providing 12mm to brick masonry including roun Providing and removing scaffolding per specifications. Schedule Of Rates PWD, Myst PWD SR 2013-14 P.No.96 I.No. Out Side Walls	sqm sqm hick cement priding off coming, including	Quantity v Quantity v Quantity v laster in si ers where cost of ma	Page No.124 vide Item No. 2 ride Item No. 2 ngle coat with ver required terials, labour	ttem N 25 26 a cement smooth a, curing o	o.15.33) mortar 1:6, rendering, : complete as	283.74	25.00	12958.
27	Ceiling Inside Walls KSRB15-3.3: Providing 12mm to brick masonry including round Providing and removing scaffolding per specifications. Schedule Of Rates PWD, Myster PWD SR 2013-14 P.No.96 I.No.56	sqm sqm sqm hick cement p nding off corning, including	Quantity v Quantity v Quantity v laster in si ers where cost of ma	Page No.124 vide Item No. 2 ride Item No. 2 ride coat with ver required terials, labour	ttem N 25 26 a cement smooth a curing of	o.15.33) mortar 1:6, rendering, : complete as	283.74 518.32	25.00	12958.

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
De	duction								
D		sqm	-1	1.00		2.10	-2.10		
W		sqm	÷15	1.50		1.20	-27.00		
RS	3	sqm	-1	3.00		2.40	-7.20		
						_	290.34	150.00	43551.00

KSRB 14.7-3: Providing and laying flooring 40 mm thick, with an under layer of 30mm thick M-15 cement concrete, using broken granite metal of 12.5mm nominal size and top layer of 10mm thick plaster with cement mortar 1:3, finished with floating coat of neat cement, including cost of materials, labour, curing, complete as per specifications. Specification No. KBS 14.3

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.104 Item No.14.10)

Ground floor							
Room	sqm	1	2.40	2.400	5.76		
Entrance	sqm	1	3.60	3.900	14.04		
Staircase	sqm	1	2.63	2.400	6.31		
Canopy	sqm	1	4.06	3.000	12.18		
First floor							
Room	sqm	1	2.40	2.400	5.76		
Entrance	sqm	1	3.60	3.900	14.04		
Pipe Gallary	sqm	1	3.60	6.000	21.60		
Filter Portion							
Central walkway	sqm	4	4.60	1.500	27.60		
Over Outlet chamber	sqm	4	1.35	1.000	5.40		
					112.69	517.00	58260.00

KSRB 15-14.1: Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.119 Item No.15.49.1

Ceiling	sqm	Quantity vide item NO.25	234.58		
Inside Plastering	sqm	Quantity vide item NO.26	283.74		
			518.32	71.00	36800.00

KSRB 15-16.1: Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.120 Item No.15.53.1

 Quantity vide item NO.18
 Sqm
 17.43
 x
 1.50
 26.15

 Quantity vide item NO.28
 Sqm
 290.34
 316.49
 69.00
 21837.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
32	KSRB 15.1.3 -do- Providing ruled 1:3, 20mm deep, after raking joir materials, labour, curing complete a	its to depth	of 20mr		•				
	Schedule Of Rates PWD, Myso	re Circle 2	016-17 (i	Page No.11	5 Item N	o.15.3)			
		Sqm	1	17.58		0.450 _ _	7.91 7.91	98.00	775.00
33	KSRB 15-17.6 : Providing and apply wood surface and / or wood base cleaning the surface of all dirt, du materials, labour, complete as per s	ed surface st and forei	with enam gn matter,	el paint to	give an e	ven shade,			
	Schedule Of Rates PWD, Myso	re Circle 2	016-17 (Page No.12	1 Item N	o.15.60.1			
) D	Sqm	2.25	3	1.00	2.10	14.18	84.00	1191.00
34	binding wire of approved quality an the adjoining members wherever n as per design specification and dire Schedule Of Rates PRE,Mysor	ecessary ind ctions (laps	cluding all and wasta	laps and wa ges not to be	stages ec e measure	t., complete d and paid)			
	2.11) For Footing	Oty of I	tem No.3				21.02		
	CC Wall	•	tem No.4				87.32		
	For columns, Roof Beam & Staircas	•							
		Qty of I	tem No.12			_	47.14		
						-	155.48		
		Kgs		155.48	@1	10 Kg/Cum	17103.00		
		MT					17.1	56697.50	969527.00
35	Providing and installing at site of vand labour, including lowering into joints leak proof including jointing charges including encasing the pip selected earth available from the experience.	trenches, la of approved e alround to	type with a a depth	to line, level all labour and not less than	and perfe	ct linking at es,handling			
	Schedule Of Rates PRE, Myson	e Circle 20	012-13 (F	Page No.15	item No.	.3.4.2)			
	PVC 90mm dia 6 KSC Pipe	Dt	450	2 70			E00 45		
	Laterals	Rmt	158	3.78		-	596.45 596.45	210.00	125255.00
							J3U.4J	210.00	120200.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
36	Supplying Ductile Iron pipes K-9 and conveying to worksite, rollin perfect linking at joints, testing a destinations and cuts of pipes specials, (excluding cost of spec spigot ends with soap solution are insertion of rubber gaskets, jack solution, soft soap, waste etc. are as per ISS with all lead and lift in own arrangements for procuring Grade Pig Iron (Si:2%-2.5%) with	g and lowering nd commission wherever neo ials) with rubbe nd applying sol ing and fixing nd giving neces ncluding cost o water for testir	into trend ing, include cessary in er gaskets ft soap to in perfect ssary hyde f jointing ng). DI Pip	ches, laying truding loading an including jointing including clear the spigot and a conditions increalic test to the materials. (contoe rates are based in the spigot and a conditions increased the spigot and the spig	e to lline, d unloadil g of DI p ning the s socket er luding cos e required ractor will	level and ng at both pipes and cocket and nds before st of soap d pressure I make his			
	Schedule Of Rates KUWS & Item No.II.2.5.2)				Page No	o. 14			
	300 mm Dia	Nos	4 Rate Incli	3.30 uding 10% spec	cials	_	13.20	4483.25	59179.00
				3				,,,,,,,	
37	Collecting and stacking the follo 6mm,10mm,12mm,20mm & 40m Schedule Of Rates KUWS & Item No.IV.2.8.)	m							
	icin idona.e.o. j								
а	40 mm Nominal Size	cum	4	3.30 14.26	2.70	0.40 25%	14.26 3.57	050.00	2202.00
		2		14.20	X	Z3% _*	3.57	950.00	3392.00
			22						
b	20 mm Nominal Size	cum	4	3.30 14.26	2.70 x	0.40 25%	14.26 3.57	1100.00	3927.00
				11.20	^	2070	0.01	1100.00	3321.00
	12 mm Nominal Size	oum.	,	2 20	2 70	0.40	44.00		
C	12 IIIII Nomma Size	cum	4	3.30 14.26	2.70 x	0.40 20%	14.26 2.85	1025.00	2921.00
d	10 mm Nominal Size	cum	4	3.30	2.70	0.40	14.26		
ď	TO THE COMMINICATIONS	Cum	8	14.26	X.70	20%	2.85	1025.00	2921.00
е	6 mm Nominal Size	cum	4	3.30	2.70	0.40	14.26		
•			20	14.26	X	20%	2.85	800.00	2280.00
-	Total								

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
38	Labour charges for laying following gallery works including cleaning, s the point of laying etc., complete.						10-20-2		
	1) Graded Granite/Trap/Basalt/Met Schedule Of Rates KUWS & D Item No.IV.2.7.1) Quantity vide item No.37				(Page N	o.47			
	40 mm Nominal Size	Cum					3.57		
	20 mm Nominal Size	Cum					3.57		
	12 mm Nominal Size	Cum					2.85		
	10 mm Nominal Size	Cum					2.85		
	6 mm Nominal Size	Cum					2.85		
		5 4				_	15.69	638.40	10016.00
39	Collection of approved quality sar specification for Rapid Sand Filter Schedule Of Rates PRE,Myso	including all	conveyan	ce , lead & lifts	etc., com	plete	O and ISI		
а	-do- Fine sand	cum	4	3.30	2.70	0.30	10.69	050.00	11170.00
				10.69	X	110%	11.76	950.00	11172.00
	Schedule Of Rates PRE,Myso	re Circle 20)12-13 (Page No.ii It	em No.73	3)			
b	-do- Coarse sand	cum	4	3.30	2.70	0.30	10.69		
				10.69	x	110%	11.76	950.00	11172.00
40	Labour charges for laying following gallery works including cleaning, sthe point of laying etc., complete. 1) Graded Granite/Trap/Basalt/Mei	screening and	d placing i	it under water					
	Schedule Of Rates KUWS & Ditem No.IV.2.7.1)	OB, Karnata	ka Boar	d 2018-2019	(Page N	o.47			
	Quantity vide item No.39								
	-do- Fine sand	Cum					11.76		
	-do- Coarse sand	Cum					11.76		
	do Course sand	Ouiii				_	23.52	638.40	15015.00
41	KSRB 15-16.1 : Providing and fini paint of approved brand and shar surface to remove all dirt and loo foreign matter cost of materials, lat	de to give ar se powdered	n even sh I material,	ade after thore, free from mo	oughly bro	oming the	25.02	333.10	10010.00
	Schedule Of Rates PWD,Mys	ore Circle 2	016-17 (Page No.12	0 Item No	o.15.53.1			
) Long walls	A1177	2	EA 60	4 50		404.40		
	Long walls Short walls	cum	2 2	54.60	4.50		491.40		
	Inlet chamber projections	cum	8	0.90 0.90	4.50 4.50		8.10		
	and chamber projections	cum	0	0.90	4.50	_	32.40	60.00	26704.00
							531.90	69.00	36701.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
42	Providing and fixing G.I. pipe railing flat slab of landings of elevated st painting, embedding in C.M. pillars w	orage rese	ervoir incl	uding cutting	. weldir				
	Schedule Of Rates PRE,Mysore	e Circle 20 Rmt	012-13 (F 4	Page No.30 13.5	Item N	0.4.7)	54.000	451.00	24354.00
43	Supplying & Fixing CI puddle flange in position for R.C.C. walls including and lift etc., complete.		-						
	Schedule Of Rates KUWS & DE Item No.III.1.14)	3, Karnata	ika Board	1 2018-2019	9 (Page	No.40			
	a CI Puddle Flanges 250 mm dia	Nos	2			(2)	2	10721.76	21444.00
	c Cl double flanged pipes length 250 mm dia	Mtr	40				40	7666.40	306656.00
44	Supply and Delivery of resilient se Ductile iron of grade GGG50, wedg the valves should be of vaccum tigh 5163-89/IS 14846-2000/ DIN 3202 sealing rings (minimum 2 "O" rings galvanized bolts and nuts of required	e fully rubt t and 100% F4/F5,. T). All the	per lined volves leak pro he steam valves St	with EPDM a of with face of Sealing Sh nall be suppl	nd Seals dimension ould be lied with	s of NBR and ons as per BS with toroidal			
	Schedule Of Rates KUWS & DE	3, Karnata	ıka Board	d 2018-2019	9(Page	• No.18			
	2								
	200 mm dia	Each	18				18.00	33691.84	606453.00
45	Providing Electrical services.			At	5%	of civil works			266553.00
46	Rounding off								2390.00
	G. allanjadt	90	···	m/			Т	otal _	5600000.00
	•	,		ಲಕ ಇಂಜ	ಶಿಂತುದ್				

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ SUB ESTIMATE: PURE WATER SUMP

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.				
1	Earth work excavation for foundation and removing the excavated stuff to a distance not exceeding 50 mtrs and with a lift upto 1.50 mtrs. Including shoring, strutting, barricading, danger lighting etc., complete By Manual means												
	Schedule Of Rates PRE, Mysore	e Circle 20	012-13 (i	Page No.1	Item No.1.	1)							
	b) In Hard soil	cum	0.785	10.30	10.30	3.50	291.48	171.00	49843.00				
2	Providing and laying granite or basa size jelly for foundation laid in 15 cm by using hand mixers, curing etc. con	n thick laye	rs and we	ll cum comp	pacted includ	ling mixing							
	Schedule Of Rates PRE,Mysore	e Circle 2	012-13 (Page No.6	Item No.2.	1)							
	Bed Concrete	cum	0.785	10.30	10.30	0.15	12.49	3864.00	48269.00				
3	Providing and laying vibrated cemer excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost centering scaffolding, cement mort including machline mixing, vibrating and giving satisfactory water proof charges). For flat or floor slab (M-30)	n 20 mm a Super pla and conve tar plasteri , curing m f testing et	nd down sticiser @ yance of ng 1:3 praking cons	size of gran 3ltrs confir all material oportion, 2 struction join	ite of trap orming to IS sometimes including orm thick on the wherever	r basalt or 9103-1999 form work for inside necessary							
	Schedule Of Rates PRE,Mysoro	e Circle 2	012-13 (Page No.9	Item No.2.	.10.1)							
	M-30 for Raft	cum	0.785	10.00	10.00	0.30	23.55	5774.00	135978.00				
4	-do- for Vertical side walls Schedule Of Rates PRE,Mysore C	ircle 2012-	13 (Page	No.9 Item	No.2.10.2)								
	Side wall	cum	3.142	9.25	0.25 (1/2x0.25)	5.25	38.15						
	Haunch portion (0.6*0.50)=0.30	cum	3.142	9.00	0.150	0.30	1.27						
	Ring Beam	cum	3.142	9.30	0.300	0.25	2.19						
							41.61	6879.00	286234.0				

. No	. Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
5	Providing and laying Reinforced graded granite or trap or basalt super plasticiser @ 3lts confirming well consolidated including cent required plumb and face in CM design and specifications etc., confisteel and fabrication charges)	t jelly of appro ng to IS-9103-2 ering, formworl .1:3 proportion	ved qualit 008 in lay k, vibratin wherever	y of 20mm ers of not m g, curing, s necessary	and dowr ore than 1 mooth finis etc., comp	n size, with 5 cms thick, shing to the olete as per			
	Schedule Of Rates PRE,Mys	sore Circle 20)12-13 (F	Page No.2	7 Item No	.4.4b)			
	a)6 m staging								
		(3	2 x 3.142)						
	CC M-25 Top dome	cum	6.284	8.725	2.000	0.100	10.97		
	Top Ring beam Deductions	cum	3.142	0.675	0.150	0.150	0.05		
	Cover	cum	-1	0.600	0.600	0.100	-0.04		
	Final open	cum	-0.785	0.600	0.600	0.100	-0.03		
						•	10.95	9384.00	102746.00
6	Providing and fabricating TMT hooking, lapping and / or weld binding wire of approved quality the adjoining members whereve as per design specification and of	ling wherever and guage inc r necessary inc directions (laps	required,p luding cos cluding all and wasta	lacing in p t of binding laps and w ges not to b	osition and wire and a astages ed be measure	anchoring to t., complete ed and paid)			
6	hooking, lapping and / or weld binding wire of approved quality the adjoining members whereve as per design specification and of Schedule Of Rates PRE,Mys 2.11)	ling wherever and guage inc r necessary inc directions (laps	required,p luding cos cluding all and wasta	lacing in p t of binding laps and w ges not to b	osition and wire and a astages ed be measure	anchoring to t., complete ed and paid)			
6	hooking, lapping and / or weld binding wire of approved quality the adjoining members whereve as per design specification and of Schedule Of Rates PRE,Mys 2.11) Qty of Item No 3	ling wherever and guage inc r necessary inc directions (laps	required,p luding cos cluding all and wasta 012-13 (I	lacing in p t of binding laps and w ges not to b Page No.V	osition and a wire and a astages ed to measure III Item N	enchoring to tt., complete ed and paid) o.79 & Kg/Cum	2826.00		
6	hooking, lapping and / or weld binding wire of approved quality the adjoining members whereve as per design specification and of Schedule Of Rates PRE,Mys 2.11) Qty of Item No 3 Qty of Item No 4	ling wherever and guage inc r necessary inc directions (laps	required,p luding cos cluding all and wasta 212-13 (I 23.55 41.61	lacing in p t of binding laps and w ges not to b Page No.V @ @	osition and wire and a stages ed be measure III Item N 120 120	enchoring to tt., complete ed and paid) o.79 & Kg/Cum Kg/Cum	4993.19		
6	hooking, lapping and / or weld binding wire of approved quality the adjoining members whereve as per design specification and of Schedule Of Rates PRE,Mys 2.11) Qty of Item No 3	ling wherever and guage inc r necessary inc directions (laps	required,p luding cos cluding all and wasta 012-13 (I	lacing in p t of binding laps and w ges not to b Page No.V @ @ @ @	osition and a wire and a astages ed to measure III Item N	enchoring to tt., complete ed and paid) o.79 & Kg/Cum	4993.19 1313.88		
6	hooking, lapping and / or weld binding wire of approved quality the adjoining members whereve as per design specification and of Schedule Of Rates PRE,Mys 2.11) Qty of Item No 3 Qty of Item No 4	ling wherever and guage inc r necessary inc directions (laps	required,p luding cos cluding all and wasta 212-13 (I 23.55 41.61	lacing in p t of binding laps and w ges not to b Page No.V @ @	osition and wire and a stages ed be measure III Item N 120 120	enchoring to tt., complete ed and paid) o.79 & Kg/Cum Kg/Cum	4993.19		
6	hooking, lapping and / or weld binding wire of approved quality the adjoining members whereve as per design specification and of Schedule Of Rates PRE,Mys 2.11) Qty of Item No 3 Qty of Item No 4	ling wherever and guage inc r necessary inc directions (laps	required,p luding cos cluding all and wasta 212-13 (I 23.55 41.61	lacing in p t of binding laps and w ges not to b Page No.V @ @ @ @	osition and wire and a stages ed be measure III Item N 120 120	enchoring to tt., complete ed and paid) o.79 & Kg/Cum Kg/Cum	4993.19 1313.88	56697.50	517822.00
7	hooking, lapping and / or weld binding wire of approved quality the adjoining members whereve as per design specification and of Schedule Of Rates PRE,Mys 2.11) Qty of Item No 3 Qty of Item No 4	hexagonal ver M-20) proportio M.S rods 4 no entilator to be of this her finish including	required,pluding coscluding all and wasta 23.55 41.61 10.95 and using s., for each of 0.45 M is ond mesh dismooth of two coal two	lacing in p t of binding laps and w ges not to b Page No.V @ @ Kg MT If for RCC of 20mm and ch of the pi to 0.5 M size to its full with CM 1:3 s of anti-co	osition and wire and a astages educe measure of the	enchoring to t., complete ed and paid) o.79 & Kg/Cum Kg/Cum Kg/Cum Kg/Cum Kg/Cum ink the finial e jelly with ways for full with 25mm x depth fully to required nt for frame	4993.19 1313.88 9133.07 9.13	56697.50	517822.00
	hooking, lapping and / or weld binding wire of approved quality the adjoining members whereve as per design specification and of Schedule Of Rates PRE,Mys 2.11) Qty of Item No 3 Qty of Item No 4 Qty of Item No 5 Providing and constructing RCC to be constructed with CC (Noreinforcement using 6mm dia., width of doom at 12cm c/c, the vectored with aluminum mosquite shape and size and ornamental	hexagonal ver M-20) proportio M.S rods 4 no entilator to be of the finish including ent paint match	required,pluding coscluding all and wasta 212-13 (J 23.55 41.61 10.95 attilator fination using s., for each of 0.45 M conditions on the second meships on the second meships on the second meships two coaling to over	lacing in p t of binding laps and w ges not to b Page No.V @ @ @ Kg MT If for RCC c 20mm and ch of the pi c 0.5 M size i to its full with CM 1:3 s of anti-cor r head tank	osition and wire and a astages educe measure of the	anchoring to t., complete ed and paid) o.79 & Kg/Cum contact the finial en in it is in it i	4993.19 1313.88 9133.07 9.13	56697.50	517822.00

SI. No	. Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
8	Providing and fixing 60x60 cms M of M.S. angle 50x50x6mm and M. and locking arrangement, painting 6	S. shutters o	f 31.5mm	or B.G.10 t	, hick with hir	nges on top			
	Schedule Of Rates PRE,Myso	re Circle 20	012-13 (Page No.3	0 Item No.	4.9)			
	Inspection door 0.6*0.6	Nos	1				2	1787.00	3574.00
9	Ladder inside the contaliner: Prov mm (approx.) "C" Section x 3.0 m rungs at 250 mm C/C ladder fiin necessary 25mm dia., G.I. shutters lhe Tank walls to prevent buckli embedding the ladder bottom comp	m of ladder at an	side chan ngle of 7 sary G.I. f	nels in to 2 0 degrees asteners for	5mm dia flu to horizonta bracing the	tal pipe for al including ladders to			
	Schedule Of Rates PRE,Myso	re Circle 20	012-13 (Page No.2	9 Item No.	4.6 b)			
	Aluminium ladder	Rmt	1	4.25			4.25	2609.00	11088.00
10	Providing 2 coats of snowcem particles of snowcem p	lastering rer uired in C.N	moval of 1 1:3 to the	vegetations	, fungus, cl	eaning the			
	Schedule Of Rates PRE, Myso	re Circle 20	012-13 (Page No.3	1 Item No.	4.14)			
	Side wall out side	sqm	3.142 (2x3.142)	9.50		2.00	59.70		
	Top dome Deductions	sqm	6.284	8.725	2.000		109.66		
	Opening	sqm	-0.785	0.60	0.60		-0.28		
	Inspection door	sqm	-1	0.60	0.60		-0.36		
							168.71	189.00	31886.00
11	Supplying & Fixing CI puddle flang in position for R.C.C. walls includir and lift etc., complete.								
	Schedule Of Rates KUWS & Ditem No.III.1.14)	B, Karnata	ka Board	d 2018-20 1	19 (Page N	No.40			
а	CI Puddle Flanges								
	250 mm dia	Nos	3	1			3	10721.76	32165.00
b									
U	CI double flanged pipes								
U	CI double flanged pipes 250 mm dia	Mtr	3	10			30	7666.40	229992.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
12	Supply and Delivery of resilient second Ductile iron of grade GGG50, wedge the valves should be of vaccum tight 5163-89/IS 14846-2000/ DIN 3202 sealing rings (minimum 2 "O" rings galvanized bolts and nuts of requires	ge fully rubbont and 100% F4/F5,. This). All the v	er lined v leak pro ne steam valves Sl	with EPDM a of with face Sealing Sh hall be supp	and Seals of dimensions nould be willed with su	of NBR and as per BS with toroidal			
	Schedule Of Rates KUWS & DI Item No.II.2.10.2)	3, Karnatal	ka Boar	d 2018-201	9 (Page I	No.18			
	250 mm dia	Each	2				2.00	50708.00	101416.00
13	Providing & Constructing SSM Valve	e Chamber (as per T	ypical estim	ate enclos	ed)			
		Nos	2				2.00	24000.00	48000.00
14	Rounding off								17.00
								Total _	1603000.00

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11. SUB ESTIMATE: CONSTRUCTION OF OVER HEAD TANK OF 50 KL CAPACITY OVER 9 M STAGING (FOR BACK WASH TANK)

			BACK	WASH IA	NK)				
SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Earth work in excavation for water so or trenches (from 601mm to 1500r specification including setting or lighting, bracing, removal of stumps bottom, backfilling the excavation exearth locally of the work in the following	nm trench ut construd and other arth to the	width) as ction of sho deleterious extent req	per drawi oring,strutting s matter, dre uired and uti	ng and barricadin essing of s lising the r	technical g,danger ides and			
	Schedule Of Rates PRE,Mysore	Circle 20)12-13 (P	age No.3 It	em No.1.5	5)			
	In Hard soil	Cum	3.142	5.050	1.200	1.200	22.849	38.00	868.00
	Ordinary rock	Cum	3.142	5.050	1.200	0.800	15.232 38.081	50.00	762.00
2	Providing and laying granite or trap of size jelly for foundation laid in 15 cm mixing, curing etc. complete as pe	thick laye	rs and well	compacted	including				
	Schedule Of Rates PRE, Mysore	Circle 20		age No.6 It	em No.2.2	2)			
		Cum	3.142	5.050	1.200	0.100	1.904	3984.00	7586.00
3	Providing and laying Reinforced cerr graded granite or trap or basalt jelly plasticiser @ 3lts confirming to IS-91 consolidated including centering, frequired plumb and face in CM.1:3 prafts raft ring-beam, column footing and fabrication charges)	of approve 103-2008 in ormwork, proportion	d quality of a layers of r vibrating, a wherever n	20mm and d not more that curing, smoo ecessary etc	own size, wo n 15 cms the oth finishin n, complete	vith super nick, well g to the e for RCC			
	Schedule Of Rates PRE,Mysore	Circle 2	012-13 (P	age No 21 I	tem No 4	1/b))			
a)	Raft Slab	Cum	3.142	5.050	1.050	0.150	2.499		
b)	Raft Beam	Cum	3.142	5.050	0.350	0.400	2.221		
c)	Columns below GL	Cum	6	0.200	0.200	1.350	0.324		
	Raft Beam Deduction	Cum	-3.142	5.050	0.350	0.150	-0.833		
					Tota	al	4.211	6322.00	26622.00

								,	
SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
4	Providing and laying Reinforced control of graded granite or trap or basalt jell plasticiser @ 3lts confirming to IS-consolidated including centering, required plumb and face in CM.1 design specification for staging, control steel and fabrication charges) Schedule Of Rates PRE, Myson	y of approved 9103-2008 in formwork, 3 proportion lumns and bu	d quality of n layers of vibrating, wherever races abov	20mm and d not more tha curing, smoo necessary el e ground lev	own size, in 15 cms oth finishi tc., comple el (exclus	with super thick, well ng to the ete as per ive cost of			
	For 9 m staging	_	•						
a)	Columns	Cum	6	0.200	0.200	9.000	2.160		
c)	Braces	Cum	12	2.525	0.250	0.300	2.273		
d)	Haunch (1/2 x 0.25) = 0.125	Sqm	2x12	2.525	0.125	0.025	0.378		
						Total	4.811	7696.00	37025.00

Providing and laying Reinforced cement concrete of mix design of M-30 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than '15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in C.M.1:3 proportion wherever necessary etc., complete as Per design and specification and giving satisfactory ,water proof test including construction joints wherever necessary as per the directions of the departmental Officers complete for ring beam, side walls, bottom dome or bottom slab, shell portion and bottom ribs (exclusive of cost of steel and fabrication charges and jointing materials)

Schedule Of Rates PRE, Mysore Circle 2012-13 (Page No.26 Item No.4.3C) For 9 m staging

Bottom ring Beam	Cum	3.142	5.050	0.250	0.450	1.785	
Bottom slab	Cum	0.785	5.300	5.300	0.325	7.166	
Gallary	Cum	3.142	5.900	0.600	0.125	2.781	
Side wall	Cum	3.142	5.150	0.150	2.650	6.432	
Fillet $(0.5 \times 0.15) = 0.075$	Cum	3.142	5.000	0.075	0.150	0.177	
Concrete Pole for hand rail	Cum	10	0.150	0.150	0.750	0.338	
Deduction (Bottom ring Beam)	Cum	-3.142	5.050	0.250	0.325	-1.289	
						47.000	4.4

17.390 11591.00 201567.00

Providing and laying Reinforced cement concrete of mix design of M-30 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete as per design and specifications etc., complete for top rib and top dome or top slab (exclusive cost of steel and fabrication charges)

Schedule Of Rates PRE, Mysore Circle 2012-13 (Page No.28 Item No.4.4C)

For 9 m staging

Top Ring Beam Cum 3.142 5.200 0.200 0.200 0.654

	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
	<u> </u>		(2x3.142)		-				
Тор	Dome	Cum	6.284	3.580	1.000	0.100	4.499		
Dec	duction								
Ven	tilators	Cum	-0.785	0.900	0.900	0.100	-0.064		
Insp	pection door	Cum	-1	0.600	0.600	0.100	-0.036		
				Nett C	(ty		5.053	9700.00	49014.

Providing and fabricating TMT reinforcement including, straightening cutting, bending, hooking, lapping and / or welding wherever required, placing in position and tying with binding wire of approved quality and guage including cost of binding wire and anchoring to the adjoining members wherever necessary including all laps and wastages ect., complete as per design specification and directions (laps and wastages not to be measured and paid)

Schedule Of Rates PRE, Mysore Circle 2012-13 (Page No. VIII Item No. 79 & 2.11)

Qty of item No 3 Qty of item No 5 Qty of item No 6 Qty of item No 7	Kg Kg Kg Kg	100.0 100.0 100.0 120.0 Total	4.211 4.811 17.390 5.053	Kg	421.100 481.100 1739.000 606.360 3247.560		
		Say		Kg MT	3248.00 3.25	58197.50	189025.00

8 Providing RCC spiral staircase (including cost of reinforcement, taxes & its fabrication charges) for access to overhead tank, etc. complete (as per detailed sub estimate)

For 9 m staging	No	1	1.00	110000.00	110000.00
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9 Ladder inside the contaliner: Providing and Anodised Aluminium ladder, using 65 mm x 32 mm (approx.) "C" Section x 3.0 mm of ladder side channels in to 25mm dia flutal pipe for rungs at 250 mm C/C ladder flixed at an angle of 70 degrees to horizontal including necessary 25mm dia., G.I. shutters with necessary G.I. fasteners for bracing the ladders to lhe Tank walls to prevent buckling of lhe ladder with necessary C.C. (M15) bed for embedding the ladder bottom complete

Schedule Of Rates PRE, Mysore Circle 2012-13 (Page No.29 Item No.4.6 b)

Rmtr	1 No	2 970	2 97	2600.00	77 <u>4</u> 9 በበ

No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
10	Providing and constructing RCC hex to be constructed with CC (M-20) reinforcement using 6mm dia., M.S width of doom at 12cm c/c, the ventile 25mm x 5mm M.S. frame welded covered with aluminum mosquito me shape and size and ornamental finis and mesh and two coats of cement p	proportion rods 4 nos ator to be o with diamon sh finished th including	n using s., for e f 0.45 M and me smootl two co	2 20mm and each of the pid x 0.5 M size sh to its full the with CM 1:3 pats of anti-co	down size llars both we provided we width and proportion prrosive pain	e jelly with ways for full ith 25mm x depth fully to required at for frame			
	Schedule Of Rates PRE, Mysore	Circle 20	12-13 1	(Page No.3	0 Item No.	4.8)	1.00	3970.00	3970.00
11	Providing and fixing 60x60 cms M.S of M.S. angle 50x50x6mm and M.S. and locking arrangement,painting etc.	shutters of	31.5mi	m or B.G.10 t	hick with hir	nges on top			
	Schedule Of Rates PRE,Mysore	Circle 20	1 2-13 1	(Page No.3	0 Item No.	.4.9)	1.00	1787.00	1787.00
12	(a) Providing and fixing guage with i with copper floats indicators and enamelled paint with all lead and lifts	flexible ny	lon wir	es, painting	figures with				
	Schedule Of Rates KUWS & DE Item No.III.1.13.2)	3, Karnata	ka Boa	ard 2018-20	19 (Page I	No.40			
		8, Karnata No.	ka Boa	ard 2018-20	19 (Page I	No.40	1.00	7475.36	7475.00
13	Item No.III.1.13.2)	No. s conformin	1 g to IS	7181-1986 w	vith latest an	nendments,	1.00	7475.36	7475.00
13	Item No.III.1.13.2) 7300.16 + (2.65 - 2.5) / 0.5 X 584 Supplying & Fixing CI puddle flanger in position for R.C.C. walls including	No. s conformin hoisting an	1 ng to IS nd conv	7181-1986 w eying them to	vith latest an work spot v	nendments, with all lead	1.00	7475.36	7475.00
13	Item No.III.1.13.2) 7300.16 + (2.65 - 2.5) / 0.5 X 584 Supplying & Fixing CI puddle flanger in position for R.C.C. walls including and lift etc., complete. Schedule Of Rates KUWS & DE	No. s conformin hoisting an	1 ng to IS nd conv	7181-1986 w eying them to	vith latest an work spot v	nendments, with all lead			7475.00
13	Item No.III.1.13.2) 7300.16 + (2.65 - 2.5) / 0.5 X 584 Supplying & Fixing CI puddle flanger in position for R.C.C. walls including and lift etc., complete. Schedule Of Rates KUWS & DE Item No.III.1.14) Raw water rising Main	No. s conformin hoisting an	1 ng to IS nd conv	7181-1986 w eying them to	vith latest an work spot v	nendments, with all lead	1.00 1.00 12.00	7475.36 3552.64 2686.88	3553.00
13	Supplying & Fixing CI puddle flanger in position for R.C.C. walls including and lift etc., complete. Schedule Of Rates KUWS & DEItem No.III.1.14) Raw water rising Main 100 mm dia Puddle Flange Flanged Pipe Length For Outlet	No. s conformin hoisting an	1 g to IS of conv	7181-1986 w eying them to ard 2018-20	vith latest an work spot v	nendments, with all lead	1.00	3552.64	3553.00
13	Supplying & Fixing CI puddle flanger in position for R.C.C. walls including and lift etc., complete. Schedule Of Rates KUWS & DEItem No.III.1.14) Raw water rising Main 100 mm dia Puddle Flange Flanged Pipe Length For Outlet 100 mm dia	No. s conformin hoisting an B, Karnata Nos Rmt	1 g to IS d conv	7181-1986 w eying them to ard 2018-20	vith latest an work spot v	nendments, with all lead	1.00 12.00	3552.64 2686.88	3553.00 32243.00
13	Supplying & Fixing CI puddle flanger in position for R.C.C. walls including and lift etc., complete. Schedule Of Rates KUWS & DEItem No.III.1.14) Raw water rising Main 100 mm dia Puddle Flange Flanged Pipe Length For Outlet	No. s conformin hoisting an	1 g to IS of conv	7181-1986 w eying them to ard 2018-20	vith latest an work spot v	nendments, with all lead	1.00	3552.64	3553.00 32243.00 3553.00
13	Supplying & Fixing CI puddle flanger in position for R.C.C. walls including and lift etc., complete. Schedule Of Rates KUWS & DEItem No.III.1.14) Raw water rising Main 100 mm dia Puddle Flange Flanged Pipe Length For Outlet 100 mm dia Puddle Flange Flanged Pipe Length	No. s conformin hoisting an R Karnata Nos Rmt	1 g to IS of converse to IS of the I	7181-1986 weying them to	vith latest an work spot v	nendments, with all lead	1.00 12.00	3552.64 2686.88 3552.64	3553.00 32243.00 3553.00
13	Item No.III.1.13.2) 7300.16 + (2.65 - 2.5) / 0.5 X 584 Supplying & Fixing CI puddle flanger in position for R.C.C. walls including and lift etc., complete. Schedule Of Rates KUWS & DEItem No.III.1.14) Raw water rising Main 100 mm dia Puddle Flange Flanged Pipe Length For Outlet 100 mm dia Puddle Flange	No. s conformin hoisting an R Karnata Nos Rmt	1 g to IS of converse to IS of the I	7181-1986 weying them to	vith latest an work spot v	nendments, with all lead	1.00 12.00	3552.64 2686.88 3552.64	3553.00 32243.00 3553.00
13	Item No.III.1.13.2) 7300.16 + (2.65 - 2.5) / 0.5 X 584 Supplying & Fixing CI puddle flanger in position for R.C.C. walls including and lift etc., complete. Schedule Of Rates KUWS & DEItem No.III.1.14) Raw water rising Main 100 mm dia Puddle Flange Flanged Pipe Length For Outlet 100 mm dia Puddle Flange Flanged Pipe Length Wash water rising Main	No. s conformin hoisting an R Karnata Nos Rmt	1 g to IS of converse to IS of the I	7181-1986 weying them to	vith latest an work spot v	nendments, with all lead	1.00 12.00	3552.64 2686.88 3552.64	7475.00 3553.00 32243.00 32243.00

No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
14	Supply and Delivery of resilient set Ductile iron of grade GGG50, wedge the valves should be of vaccum tight 5163-89/IS 14846-2000/ DIN 3202 sealing rings (minimum 2 "O" rings galvanized bolts and nuts of required Schedule Of Rates KUWS & DELITEM No.II.2.10.2) Sluice Valve	pe fully rubb at and 100% F4/F5,. The b). All the vid numbers a	er lined leak prone stear valves S as per re	with EPDM a pof with face n Sealing Sh hall be supp evant IS PN	and Seals of dimensions abould be willied with so	of NBR and s as per BS with toroidal witable size			
a)	100 mm dia	No	1				1.00	12138.56	12139.0
b)	100 mm dia	No	2				2.00	12138.56	24277.0
	exposed faces, removing loose plasurface, replastering wherever requiscaffolding & curing etc. (Including constitution of Rates PRE, Mysore)	ired in C.M ost of mater	1:3 to ials)	the required	shape with	necessary			
	Top dome	Sqm	1	2x6.284	3.58	1.00	22.407		
	Top Ring Beam	Sqm	1	3.142	5.400	0.400	22.497 6.787		
	Outside wall	Sqm	1	3.142	5.300	2.650	44.129		
	Bottom Slab	Sqm	1	0.785	5.300	5.300	22.051		
	Bottom Glab	Sqm	1	3.142	5.300	0.200	3.331		
	Gallary slab	Sqm	1	3.142	5.900	0.600			
	Gallary Slab	Sqm	1	3.142	6.500	0.125	22.245		
	Bottom ring beam	Sqm	2	3.142	5.050	0.125	5.106 7.934		
	Columns	Sqm	6	0.800	0.000	9.00	43.200		
	Brace	Sqm	12	2.525		1.10	33,330		
	Concrete poles	Sqm	10	0.600		0.750	9.000		
	Control of police	oq		0.000		Total	219.610	189.00	41506.0
	Supplying and fixing lightening arres			•		ndependent			
16	and grounding, aluminium strip is to GI conduit of 40 mm dia pipe suitabletc., complete.					ad and litts			
16	GI conduit of 40 mm dia pipe suitable	y jointed by	collars v	vith all specia	ls with all le				
16	GI conduit of 40 mm dia pipe suitable etc., complete. Schedule Of Rates KUWS & DI Item No.III.1.16)	y jointed by B, Karnata	collars v ka Boa	vith all specia	ls with all le		1.00	15022.10	15233 ()
16	GI conduit of 40 mm dia pipe suitable etc., complete. Schedule Of Rates KUWS & DI Item No.III.1.16)	ly jointed by B, Karnata Each	collars v ka Boa 1	vith all specia	ls with all le	No.41	1.00	15233.12	15233.00
	GI conduit of 40 mm dia pipe suitable etc., complete. Schedule Of Rates KUWS & DI Item No.III.1.16) For 9 m staging	B, Karnata Each 32 mm dia storage rese	collars v ka Boa 1 G.l. pipeervoir inc	vith all specia rd 2018-201 L'B' Class in teluding cuttin	s with all le	No.41 roof dome,	1.00	15233.12	15233.0
	Gl conduit of 40 mm dia pipe suitable etc., complete. Schedule Of Rates KUWS & DI Item No.III.1.16) For 9 m staging Providing and fixing G.I. pipe railing flat slab of landings of elevated spainting, embedding in C.M. pillars of the conduction	Each 32 mm dia storage resewith all lead	collars v ka Boa 1 G.I. pipe ervoir inc and lifts	vith all specia rd 2018-201 'B' Class in toluding cuttin etc., complete	s with all le	No.41 roof dome, threading.	1.00	15233.12	15233.0
	Gl conduit of 40 mm dia pipe suitable etc., complete. Schedule Of Rates KUWS & Diltem No.III.1.16) For 9 m staging Providing and fixing G.I. pipe railing flat slab of landings of elevated spainting, embedding in C.M. pillars of Schedule Of Rates PRE, Mysor	Each 32 mm dia storage resewith all lead	collars v ka Boa 1 G.I. pipe ervoir inc and lifts	vith all specia rd 2018-201 'B' Class in toluding cuttin etc., complete	s with all le	No.41 roof dome, threading.		15233.12	15233.00
17	Gl conduit of 40 mm dia pipe suitable etc., complete. Schedule Of Rates KUWS & DI Item No.III.1.16) For 9 m staging Providing and fixing G.I. pipe railing flat slab of landings of elevated spainting, embedding in C.M. pillars of the conduction	Each 32 mm dia storage resewith all lead	collars v ka Boa 1 G.l. pipeervoir incand lifts	vith all specia rd 2018-201 B' Class in toluding cutting etc., complete Page No.3	9 (Page I wo rows of g. welding.	No.41 roof dome, threading.	1.00 20.423 16.967	15233.12	15233.00

KDVV	and 5 Division			IVIA	nauevpura,	,CHIKKAHKA	nanam,r.sne	ettyriaili ariu t	other to villag
SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
18	Providing Valve Chamber (As per Su	b Estimate Rmt	enclosed))			3.00	33000.00	99000.00
19	KSRB 15-18.6: Providing and applyi on previously painted steel or other cleaning oil, grease, dirt and other complete as per specifications.	metal sur	face brus	hing to giv	e an even s	shade after			
	Schedule Of Rates PWD,Mysore	e Circle 2	016-17 (Page No.	123 Item N	o.15.78)			
		Sqm	50				50.00	26.50	1325.00
20	Miscellaneous & rounding off								2525.00
				,					999500.00

ESTIMATE FOR SPIRAL STAIRCASE FOR ELSR WITH 9.00 M STAGING HEIGHT

SI. No	. Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount
1	Earth work excavation for foundation including setting out, construction of removal of stumps and other deleter the excavation earth to the extent re work etc, complete by Mechanical Me	shoring,st ious matte quired and	rutting bar, dressin	arricading,dang g of sides and	ger lighting d bottom, t	,bracing, ackfilling			
	Schedule Of Rates PRE, Mysore	Circle 20	12-13 (F	Page No.2 Ite	m No.1.3	.1)			
	a) In Hard soil	Cum	1	1.70	1.70	0.40	1.16	30.00	35.00
	Schedule Of Rates PRE, Mysore	Circle 20	12-13 (F	Page No.2 Ite	em No.1.3	.2)			
	c) In Soft rock	Cum	1	1.70	1.70	1.10	3.18 4.335	40.00	127.00
2	Providing and laying granite or basalt size jelly for foundation laid in 15 cm by using hand mixers, curing etc. corr	thick layers	s and wel	l cum compac	ted includi	ng mixing			
	Schedule Of Rates PRE,Mysore	Circle 20	12-13 (F	Page No.6 Ite	em No.2.1)			
	Bed Concrete	Cum	1	1.70	1.70	0.10	0.29	3864.00	1117.00
3	Providing and laying Reinforced ceme			_		-			
3	graded granite or trap or basalt jelly or plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 prafts raft ring-beam, column footing, and fabrication charges)	of approved 03-2008 in ormwork, voroportion v	quality or layers of vibrating, vherever	f 20mm and do not more thar curing, smoo necessary etc	own size, von 15 cms the other than the own th	rith super lick , well g to the for RCC			
3	graded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 prafts raft ring-beam, column footing,	of approved 03-2008 in prmwork, varoportion varoportion varons to	quality of layers of vibrating, wherever of pelow gro	f 20mm and do not more than curing, smoo necessary etc und level (exc	own size, v n 15 cms tr oth finishin n, complete clusive cos	vith super nick, well g to the for RCC t of steel			
3	graded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 prafts raft ring-beam, column footing, and fabrication charges) Schedule Of Rates PRE, Mysore	of approved 03-2008 in ormwork, voroportion v columns to	quality of layers of vibrating, wherever of pelow gro	f 20mm and do not more than curing, smoo necessary etc und level (exc	own size, v 15 cms th th finishin , complete clusive cos	vith super pick, well g to the for RCC t of steel	0.34		
3	graded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 prafts raft ring-beam, column footing, and fabrication charges)	of approved 03-2008 in prmwork, varoportion varoportion varons to	quality or layers of vibrating, wherever below gro	f 20mm and do not more than curing, smoo necessary etc und level (exc	own size, v n 15 cms tr oth finishin n, complete clusive cos	vith super nick, well g to the for RCC t of steel	0.34 0.21		
3	graded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 prafts raft ring-beam, column footing, and fabrication charges) Schedule Of Rates PRE,Mysore Raft	of approved 03-2008 in ormwork, voroportion vocumns to Circle 20	quality of layers of vibrating, wherever below gro	f 20mm and do not more than curing, smoo necessary etc und level (exc Page No.21 I	tem No.4 1.50 1.50 1.50 1.19	vith super pick, well g to the for RCC t of steel 1(b))	0.21		
3	graded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 prafts raft ring-beam, column footing, and fabrication charges) Schedule Of Rates PRE,Mysore Raft Footing 991.5x1.5)+(0.35x0.35)/2	of approved 03-2008 in ormwork, voroportion vorolumns b Circle 20 Cum	I quality or layers of vibrating, wherever below gro 12-13 (F	f 20mm and do not more than curing, smoot necessary etc und level (except page No.21 in the control of the cont	own size, von 15 cms the finishin complete clusive costem No.4	vith super lick, well g to the for RCC t of steel 1(b))		6322.00	4253.00
4	graded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 prafts raft ring-beam, column footing, and fabrication charges) Schedule Of Rates PRE,Mysore Raft Footing 991.5x1.5)+(0.35x0.35)/2	of approved 03-2008 in ormwork, wo roportion vocumns to the columns to the column	quality of layers of vibrating, wherever below ground of the layers of layers of layers of vibrating, wherever	f 20mm and do not more than curing, smoot necessary etc und level (except of 20mm and do f not more than curing, smoot necessary etc.)	tem No.4 1.50 1.19 0.32 5 Grade usown size, vn 15 cms to the finishin c., comple	ith super ick, well g to the for RCC t of steel 1(b)) 0.15 0.15 1.20 ing clean vith super hick, well g to the te as per	0.21 <u>0.12</u>	6322.00	4253.00
	graded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 prafts raft ring-beam, column footing, and fabrication charges) Schedule Of Rates PRE,Mysore Raft Footing 991.5x1.5)+(0.35x0.35)/2 Column Below GL Providing and laying Reinforced cemerated granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 design specification for staging, columns.	of approved 03-2008 in ormwork, wo roportion vocumns to columns and brown to columns and columns and columns and columns and columns and columns and colu	quality of layers of vibrating, wherever the layers of the layers of the layers of layers of vibrating, wherever laces about 12-13 (I	f 20mm and do not more than curing, smoot necessary etc und level (excurs of 20mm and do not more than curing, smoot necessary etc.) design of M-2: f 20mm and do not more than curing, smoot necessary etc.	tem No.4 1.50 1.19 0.32 5 Grade usown size, vn 15 cms the them size, vn 15 cms the the them size, vn 15 cms the the them size, vn 15 cms the the them size, vn 15 cms the them size, vn 15 cms the them size, vn 15 cms the the the the the them size, vn 15 cms the them siz	vith super ick, well g to the for RCC t of steel 1(b)) 0.15 0.15 1.20 ing clean vith super hick, well g to the te as per re cost of	0.21 <u>0.12</u>	6322.00	4253.00
	graded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 prafts raft ring-beam, column footing, and fabrication charges) Schedule Of Rates PRE,Mysore Raft Footing 991.5x1.5)+(0.35x0.35)/2 Column Below GL Providing and laying Reinforced cemgraded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 design specification for staging, column steel and fabrication charges) Schedule Of Rates PRE,Mysore)	of approved 03-2008 in ormwork, word or	quality or layers of vibrating, wherever on the layers of the layers of the layers of vibrating, wherever acces about 12-13 (I	f 20mm and do not more than curing, smoot necessary etc und level (excurd level (excurd level f 20mm and do f not more than curing, smoot necessary etc ve ground level f 20mm and do f not more than curing, smoot necessary etc ve ground level f 20mm and do f not more than curing, smoot necessary etc ve ground level f 20mm and do f not more than curing, smoot necessary etc.	tem No.4 1.50 1.19 0.32 5 Grade us own size, ven 15 cms to the finishin to t	vith super ick, well g to the for RCC t of steel 1(b)) 0.15 0.15 1.20 ing clean vith super hick, well g to the te as per re cost of co.4.2(b)	0.21 <u>0.12</u> 0.67	6322.00	4253.00
	graded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 prafts raft ring-beam, column footing, and fabrication charges) Schedule Of Rates PRE,Mysore Raft Footing 991.5x1.5)+(0.35x0.35)/2 Column Below GL Providing and laying Reinforced cerning raded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 design specification for staging, column steel and fabrication charges) Schedule Of Rates PRE,Mysore) Column above GL	of approved 03-2008 in ormwork, wo reportion vector columns it columns and columns and brown or columns and brown in columns and columns it col	quality of layers of vibrating, wherever the layers of the layers of the layers of layers of vibrating, wherever laces about 12-13 (I layers of l	f 20mm and do not more than curing, smoot necessary etc und level (excurs of 20mm and do not more than curing, smoot necessary etc.) design of M-2: f 20mm and do not more than curing, smoot necessary etc. Page No.22-: (IT/4) (II/4) (II/4) (II/4) (II/4) (II/4)	tem No.4 1.50 1.19 0.32 5 Grade usown size, vn 15 cms the them No.4 23 Item No.2 1.24X0.24) 0.058	ith super lick, well g to the for RCC t of steel 1(b)) 0.15 0.15 1.20 ing clean with super hick, well g to the te as per re cost of the	0.21 <u>0.12</u> 0.67	6322.00	4253.00
	graded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 prafts raft ring-beam, column footing, and fabrication charges) Schedule Of Rates PRE, Mysore Raft Footing 991.5x1.5)+(0.35x0.35)/2 Column Below GL Providing and laying Reinforced cemerated granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 design specification for staging, column steel and fabrication charges) Schedule Of Rates PRE, Mysore) Column above GL For bracing beams	of approved 03-2008 in ormwork, wo reportion vocument concrete of approved 03-2008 in ormwork, wo proportion on and brown and	quality or layers of vibrating, wherever of the layers of the layers of the layers of vibrating, wherever acces about 12-13 (If the layers of vibrating, wherever acces about 12-13 (If the layers of vibrating, where layers of vibrating, where layers of vibrating, where layers of vibrating, where layers acces about 12-13 (If the layers of laye	f 20mm and do not more than curing, smoot necessary etc und level (except of 20mm and do not more than curing, smoot necessary etc ve ground level (TT/4) (0.785 1.00	tem No.4 1.50 1.19 0.32 5 Grade us own size, v n 15 cms the finishin the fill the	vith super ick, well g to the for RCC t of steel 1(b)) 0.15 0.15 1.20 ing clean vith super hick, well g to the te as per re cost of co.4.2(b) 12.300 0.30	0.21 <u>0.12</u> 0.67 0.56 0.36	6322.00	4253.00
	graded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 prafts raft ring-beam, column footing, and fabrication charges) Schedule Of Rates PRE,Mysore Raft Footing 991.5x1.5)+(0.35x0.35)/2 Column Below GL Providing and laying Reinforced cerning raded granite or trap or basalt jelly of plasticiser @ 3lts confirming to IS-91 consolidated including centering, for required plumb and face in CM.1:3 design specification for staging, column steel and fabrication charges) Schedule Of Rates PRE,Mysore) Column above GL	of approved 03-2008 in ormwork, wo reportion vector columns it columns and columns and brown or columns and brown in columns and columns it col	quality of layers of vibrating, wherever the layers of the layers of the layers of layers of vibrating, wherever laces about 12-13 (I layers of l	f 20mm and do not more than curing, smoot necessary etc und level (excurs of 20mm and do not more than curing, smoot necessary etc.) design of M-2: f 20mm and do not more than curing, smoot necessary etc. Page No.22-: (IT/4) (II/4) (II/4) (II/4) (II/4) (II/4)	tem No.4 1.50 1.19 0.32 5 Grade usown size, vn 15 cms the them No.4 23 Item No.2 1.24X0.24) 0.058	ith super lick, well g to the for RCC t of steel 1(b)) 0.15 0.15 1.20 ing clean with super hick, well g to the te as per re cost of the	0.21 <u>0.12</u> 0.67	6322.00	4253.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount
	a) Cylindrical portion	Cum	45	0,88	0.04	0.20	0.32		
	b) Tread	Cum	45	0.75	0.32	0.04	0.43		
	c) Rise	Cum	45	0.75	0.04	0.19	0.26		
	d) Edge Cover	Cum	45	0.21	0.04	0.19	0.07		
	column adj. to contaner	Cum	1	3.30	0.23	0.23	0.17		
							2.33	7559.00	17649.00
5	Providing and fabricating TMT re hooking, lapping and / or welding binding wire of approved quality an the adjoining members wherever no as per design specification and directions.	wherever of the where of the wheeler w	required,pl luding cost luding all l	acing in pos of binding w aps and was	ition and t ire and and tages ect.,	ying with choring to complete			
	Schedule Of Rates PRE, Mysor 2.11)	e Circle 20)12-13 (P	age No.VIII	Item No.7	79 &			
	Raft	Kg		0.67	80		53.82		
	Column	Kg		1.25	120		150.55		
	steps	Kg		45	8		360.00		
							564.37		
		MT					0.56	56697.50	31998.00
6	KSRB 4-5: Providing lath plaster steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of machine specification No. KBS	horizontally is including	and vertic	ally fixing chi materials, la	cken mesh bour, prov	for drop			
6	steel bars at 20 cms. c to c both chejja, facia, backing to cup board	horizontally is including nachlineries,	and vertic cost of all curing,	ally fixing chi materials, la complete as	cken mesh bour, provi per spec	for drop iding and ifications.			
6	steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of m Specification No. KBS	horizontally is including nachlineries,	and vertic cost of all curing,	ally fixing chi materials, la complete as	cken mesh bour, provi per spec	for drop iding and ifications.	43.62	967.00	42183.00
7	steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of m Specification No. KBS	horizontally is including nachlineries, re Circle 2 Sqm inting over of lastering rer uired in C.M	and vertice cost of all curing, of the curing of the curin	ally fixing chi materials, la complete as Page No.15 3.01 of primer includes	cken mesh bour, provinger spec Item No.4 5.13 uding scrap ungus, clea	for drop iding and ifications. 1.27) 0.90 oping the aning the	43.62	967.00	42183.00
	steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of m Specification No. KBS Schedule Of Rates PWD, Myso Providing 2 coats of snowcem parexposed faces, removing loose plasurface, replastering wherever required scaffolding & curing etc. (Including of Schedule Of Rates PRE, Mysor)	horizontally ds including nachlineries, re Circle 2 Sqm inting over of lastering rer uired in C.M cost of mater	and vertic cost of all curing, of 016-17 (1 3.142 one coat of moval of v 1 1:3 to the rials)	ally fixing chi materials, la complete as Page No.15 3.01 of primer includes the presentations, five required shape as the control of the	cken mesh bour, provinger spec Item No.4 5.13 uding scrap ungus, clean ape with n	for drop iding and ifications. 3.27) 0.90 Deping the aning the eccessary	43.62	967.00	42183.00
	steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of m Specification No. KBS Schedule Of Rates PWD, Myso Providing 2 coats of snowcem parexposed faces, removing loose pl surface, replastering wherever req scaffolding & curing etc. (Including of	horizontally ds including nachlineries, re Circle 2 Sqm inting over of lastering rer uired in C.M cost of mater	and vertic cost of all curing, of 016-17 (1 3.142 one coat of moval of v 1 1:3 to the rials)	ally fixing chi materials, la complete as Page No.15 3.01 of primer includes the presentations, five required shape as the control of the	cken mesh bour, provinger spec Item No.4 5.13 uding scrap ungus, clean ape with n	for drop iding and ifications. 3.27) 0.90 Deping the aning the eccessary	43.62	967.00	42183.00
	steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of m Specification No. KBS Schedule Of Rates PWD, Myso exposed faces, removing loose places are scaffolding & curing etc. (Including of Schedule Of Rates PRE, Mysor Column Bracing beam	horizontally distinction including nachlineries, re Circle 2 Sqm inting over of lastering reruired in C.M cost of matering received in C.M cost of matering receive	and vertice cost of all curing, of the curing of the cost of the c	ally fixing chi materials, la complete as Page No.15 3.01 of primer include regetations, five required sh	cken mesh bour, provi per spec Item No.4 5.13 uding scrap ungus, clea ape with no.4	for drop iding and ifications. 3.27) 0.90 Deping the aning the eccessary	B	967.00	42183.00
	steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of m Specification No. KBS Schedule Of Rates PWD, Myso Providing 2 coats of snowcem parexposed faces, removing loose plasurface, replastering wherever required scaffolding & curing etc. (Including of Schedule Of Rates PRE, Mysor Column Bracing beam For top slab beam	horizontally ds including nachlineries, re Circle 2 Sqm inting over of lastering rer uired in C.M cost of mater re Circle 20 Sqm	and vertic cost of all curing, of the curing, of the curing of the curin	ally fixing chi materials, la complete as Page No.15 3.01 of primer includes the required sh Page No.31 I 3.142	cken mesh bour, provi per spec Item No.4 5.13 uding scrap ungus, clea nape with no.4 0.32	for drop iding and ifications. 3.27) 0.90 Deping the aning the eccessary	12.37	967.00	42183.00
	steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of m Specification No. KBS Schedule Of Rates PWD, Myso exposed faces, removing loose plantace, replastering wherever required scaffolding & curing etc. (Including of Schedule Of Rates PRE, Mysor Column Bracing beam For top slab beam for landing	horizontally ds including nachlineries, re Circle 2 Sqm inting over of lastering rer uired in C.M cost of mater re Circle 20 Sqm Sqm	and vertice cost of all curing, of the curing of the cost of the c	ally fixing chi materials, la complete as Page No.15 3.01 of primer includes the required sh 2 age No.31 (3.142 1.00	cken mesh bour, provinger special Item No.4 5.13 uding scrapungus, clear appe with no.4 0.32 1.20	for drop iding and ifications. 3.27) 0.90 Deping the aning the eccessary	12.37 4.80	967.00	42183.00
	steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of m Specification No. KBS Schedule Of Rates PWD, Myso exposed faces, removing loose play surface, replastering wherever required scaffolding & curing etc. (Including of Schedule Of Rates PRE, Mysor Column Bracing beam For top slab beam for landing b) Tread	horizontally distribution including nachlineries, re Circle 2 Sqm inting over of lastering reruired in C.M cost of mater sqm Sqm Sqm Sqm	and vertice cost of all curing, of the curing, of the curing of the curi	ally fixing chi materials, la complete as Page No.15 3.01 of primer include egetations, first required shape required shape 3.142 1.00 1.00	cken mesh bour, provi per spec Item No.4 5.13 uding scrap ungus, clea appe with no.4 0.32 1.20 0.60	for drop iding and ifications. 3.27) 0.90 Deping the aning the eccessary	12.37 4.80 0.60	967.00	42183.00
	steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of m Specification No. KBS Schedule Of Rates PWD, Myso exposed faces, removing loose plantace, replastering wherever required scaffolding & curing etc. (Including of Schedule Of Rates PRE, Mysor Column Bracing beam For top slab beam for landing	horizontally is including nachlineries, re Circle 2 Sqm inting over of lastering reruired in C.M cost of matering sqm Sqm Sqm Sqm	and vertic cost of all curing, of the curing, of the curing of the curin	ally fixing chi materials, la complete as Page No.15 3.01 of primer include egetations, five required ship 3.142 1.00 1.00 1.00	cken mesh bour, provi per spec Item No.4 5.13 uding scrap ungus, clea ape with no.4 0.32 1.20 0.60 1.24	of for drop iding and ifications. 1.27) 0.90 Deping the aning the eccessary 1.14) 12.30	12.37 4.80 0.60 1.24	967.00	42183.00
	steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of m Specification No. KBS Schedule Of Rates PWD, Myso exposed faces, removing loose play surface, replastering wherever required scaffolding & curing etc. (Including of Schedule Of Rates PRE, Mysor Column Bracing beam For top slab beam for landing b) Tread	horizontally distribution including nachlineries, re Circle 2 Sqm inting over of lastering reruired in C.M cost of material sqm Sqm Sqm Sqm Sqm Sqm Sqm	and vertice cost of all curing, of the curing, of the curing of the curi	ally fixing chi materials, la complete as Page No.15 3.01 of primer includes a pr	cken mesh bour, provi per spec Item No.4 5.13 uding scrap ungus, clea ape with no.4 0.32 1.20 0.60 1.24 0.75	of for drop iding and ifications. 1.27) 0.90 Deping the aning the eccessary 1.2.30	12.37 4.80 0.60 1.24 21.60	967.00	42183.00
	steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of m Specification No. KBS Schedule Of Rates PWD, Myso Providing 2 coats of snowcem paiexposed faces, removing loose plantace, replastering wherever requester scaffolding & curing etc. (Including to Schedule Of Rates PRE, Mysor Column Bracing beam For top slab beam for landing b) Tread c) Rise	horizontally is including hachlineries, re Circle 2 Sqm inting over of lastering reruired in C.M cost of mater Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	and vertice cost of all curing, of the curing, of the curing of the curi	ally fixing chi materials, la complete as Page No.15 3.01 of primer include regetations, five required sh Page No.31 I 3.142 1.00 1.00 2 2	tem No.4 0.32 1.20 0.60 1.24 0.75 0.75	of for drop iding and ifications. 3.27) 0.90 Deping the aning the eccessary 12.30 0.32 0.04	12.37 4.80 0.60 1.24 21.60 2.70	967.00	42183.00
	steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of m Specification No. KBS Schedule Of Rates PWD, Myso exposed faces, removing loose plantage, replastering wherever required scaffolding & curing etc. (Including of Schedule Of Rates PRE, Mysor Column Bracing beam For top slab beam for landing b) Tread c) Rise d) Edge Cover	horizontally distribution including nachlineries, re Circle 2 Sqm inting over of lastering reruired in C.M cost of mater sqm S	and vertic cost of all curing, of the curing, of the curing of the curin	ally fixing chi materials, la complete as Page No.15 3.01 of primer includes the required ship 3.142 1.00 1.00 1.00 2 2 2 2	tem No.4 0.32 1.20 0.60 1.24 0.75 0.75	of for drop iding and ifications. 1.27) 0.90 Deping the aning the eccessary 12.30 0.32 0.04 0.04	12.37 4.80 0.60 1.24 21.60 2.70 0.76	967.00	42183.00
	steel bars at 20 cms. c to c both chejja, facia, backing to cup board removing form work HOM of m Specification No. KBS Schedule Of Rates PWD, Myso exposed faces, removing loose plantage, replastering wherever required scaffolding & curing etc. (Including of Schedule Of Rates PRE, Mysor Column Bracing beam For top slab beam for landing b) Tread c) Rise d) Edge Cover	horizontally distribution including nachlineries, re Circle 2 Sqm inting over of lastering reruired in C.M cost of mater sqm S	and vertice cost of all curing, of the curing, of the curing of the curi	ally fixing chi materials, la complete as Page No.15 3.01 of primer includes the required ship 3.142 1.00 1.00 1.00 2 2 2 2	tem No.4 0.32 1.20 0.60 1.24 0.75 0.75	of for drop iding and ifications. 1.27) 0.90 Deping the aning the eccessary 12.30 0.32 0.04 0.04	12.37 4.80 0.60 1.24 21.60 2.70 0.76	967.00	42183.00

G. ellany rath

Miscellaneous and rounding charge

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110000.00

519.00

SUB ESTIMATE: CONSTRUCTION OF WASH EATER SUMP FOR RSF

I. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
	Earth work excavation for foundation including setting out, construction or removal of stumps and other deleteric excavation earth to the extent requiretc, complete by Mechanical Means.	of shoring,sous matter, red and util	strutting ba dressing o	arricading,o of sides and	langer lightir d bottom, bad	ng,bracing, ckfilling the			-
1	Schedule Of Rates PRE,Mysore	e Circle 20)12-13 (F	age No.2	Item No.1.	3)			
	b) In Hard soil	cum	0.785	4.80	4.80	3.50	63.30	171.00	10825.00
	Providing and laying granite or basal size jelly for foundation laid in 15 cm by using hand mixers, curing etc. con	thick layer	rs and wel	l cum comp	pacted includ	ing mixing			
2	Schedule Of Rates PRE,Mysore	Circle 20)12-13 (F	Page No.6	Item No 2	1)			
	Bed Concrete	cum	0.785	4.80	4.80	0.15	2.71	3864.00	10483.00
	Providing and laying vibrated cemen	t concrete (or aesign r	піх м-зо р	roportion for	RCC Work			
	excluding and laying vibrated cemen excluding cost of reinforcement with a other approved hard jelly with Su Reaffirmed - 2008 including cost a centering scaffolding, cement mortaincluding machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30)	20 mm and iper plastice and convey ar plastering ma	down size ciser @ 3 yance of a ng 1:3 pro aking cons	e of granite altrs confirmal all material oportion, 2 struction joi	of trap or ba ning to IS Is including 0 mm thick nt wherever	salt or any 9103-1999 form work for inside necessary			
	excluding cost of reinforcement with a other approved hard jelly with Su Reaffirmed - 2008 including cost a centering scaffolding, cement mortaincluding machline mixing, vibrating, and giving satisfactory water proof	20 mm and oper plastic and convey ar plasterin , curing ma testing etc	down size ciser @ 3 yance of a ng 1:3 pro aking cons c. (Exclusi	e of granite all material oportion, 2 struction joi ve of cost	of trap or ba ning to IS s including 0 mm thick nt wherever of steel &	salt or any 9103-1999 form work for inside necessary fabrication			
	excluding cost of reinforcement with a other approved hard jelly with Su Reaffirmed - 2008 including cost a centering scaffolding, cement mortaincluding machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30)	20 mm and oper plastic and convey ar plasterin , curing ma testing etc	down size ciser @ 3 yance of a ng 1:3 pro aking cons c. (Exclusi	e of granite all material oportion, 2 struction joi ve of cost	of trap or ba ning to IS s including 0 mm thick nt wherever of steel &	salt or any 9103-1999 form work for inside necessary fabrication	4.77	5774.00	27535.00
3	excluding cost of reinforcement with a other approved hard jelly with Sur Reaffirmed - 2008 including cost a centering scaffolding, cement mortaincluding machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore	20 mm and uper plastic and convey ar plasterir, curing matesting etc.	down size ciser @ 3 yance of a ng 1:3 pro aking cons c. (Exclusi	e of granite eltrs confirm all material oportion, 2 struction joi eve of cost	of trap or ba ning to IS is including 0 mm thick nt wherever of steel &	salt or any 9103-1999 form work for inside necessary fabrication	4.77	5774.00	27535.00
	excluding cost of reinforcement with a other approved hard jelly with Su Reaffirmed - 2008 including cost a centering scaffolding, cement mortaincluding machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore M-30 for Raft	20 mm and aper plastic and convey ar plasterir, curing matesting etc.	d down size ciser @ 3 yance of a ng 1:3 pro aking cons c. (Exclusi	e of granite eltrs confirmal all material oportion, 2 truction joint eve of cost eage No.9	of trap or ba ning to IS is including 0 mm thick nt wherever of steel & Item No.2.	salt or any 9103-1999 form work for inside necessary fabrication 10.1)	4.77	5774.00	27535.00
3	excluding cost of reinforcement with a other approved hard jelly with Su Reaffirmed - 2008 including cost a centering scaffolding, cement mortaincluding machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore M-30 for Raft	20 mm and aper plastic and convey ar plasterir, curing matesting etc.	d down size ciser @ 3 yance of a ng 1:3 pro aking cons c. (Exclusi	e of granite eltrs confirmal all material oportion, 2 truction joint eve of cost eage No.9	of trap or ba ning to IS is including 0 mm thick nt wherever of steel & Item No.2.	salt or any 9103-1999 form work for inside necessary fabrication 10.1)	4.77	5774.00	27535.00
3	excluding cost of reinforcement with a other approved hard jelly with Su Reaffirmed - 2008 including cost a centering scaffolding, cement mortaincluding machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore M-30 for Raft -do- for Vertical side walls Schedule Of Rates PRE, Mysore	20 mm and aper plastic and convey ar plasterir, curing matesting etc. • Circle 20 cum	down size ciser @ 3 yance of a region of a	e of granite eltrs confirmal material oportion, 2 struction jointive of cost 4.50 Page No.9	of trap or baning to IS is including 0 mm thick nt wherever of steel & 4.50	salt or any 9103-1999 form work for inside necessary fabrication 0.30		5774.00	27535.00
3	excluding cost of reinforcement with a other approved hard jelly with Su Reaffirmed - 2008 including cost a centering scaffolding, cement mortaincluding machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore M-30 for Raft -do- for Vertical side walls Schedule Of Rates PRE, Mysore	20 mm and aper plastic and convey ar plasterir, curing matesting etc. • Circle 20 cum	down size ciser @ 3 yance of a region of a	e of granite eltrs confirmal material oportion, 2 struction jointive of cost 4.50 Page No.9	of trap or baning to IS is including 0 mm thick nt wherever of steel & 4.50 Item No.2.	salt or any 9103-1999 form work for inside necessary fabrication 0.30		5774.00	27535.00

. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
5	Providing and laying Reinforced cer graded granite or trap or basalt jelly plasticiser @ 3lts confirming to IS-9 consolidated including centering, required plumb and face in CM.1:3 design and specifications etc., comp of steel and fabrication charges)	of approved 103-2008 in formwork, proportion	f quality of a layers of vibrating, wherever	20mm and not more t curing, sm necessary	down size, han 15 cm: looth finish etc., comp	with super s thick, well ning to the plete as per		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Schedule Of Rates PRE, Mysor	e Circle 20)12-13 (F	age No.2	7 Item No.	.4.4b)			
	a)6 m staging								
		(2 x 3.142)						
	CC M-25 Top dome	cum	6.284	4.250	2.000	0.100	5.34		
	Top Ring beam	cum	3.142	0.675	0.150	0.150	0.05		
	Ring Beam	cum	3.142	4.15	0.30	0.25	0.98		
	Deductions								
	Cover	cum	-1	0.600	0.600	0.100	-0.04		
	Final open	cum	-0.785	0.600	0.600	0.100	-0.03		
							6.30	9384.00	59146.0
6	Providing and fabricating TMT re hooking, lapping and / or welding binding wire of approved quality an the adjoining members wherever not as per design specification and direct Schedule Of Rates PRE, Mysor 2.11)	wherever d guage inc ecessary inc ctions (laps	required,p luding cos cluding all and wasta	lacing in p t of binding laps and w ges not to b	osition and wire and a astages ec e measured	tying with anchoring to t., complete d and paid)			
	Qty of Item No 3		4.77	@	120	Kg/Cum	572.27		
	Qty of Item No 4		17.26	@	150	Kg/Cum	2589.68		
	Qty of Item No 5		6.30	@	120	Kg/Cum	756.34		
				Kg			3918.28		

l. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
	Providing and constructing RCC he to be constructed with CC (M-20 reinforcement using 6mm dia., M.S of doom at 12cm c/c, the ventilator to x 5mm M.S. frame welded with diar aluminum mosquito mesh finished size and ornamental finish includin and two coats of cement paint match	ods 4 nos., be of 0.45 nond mesh smooth witing two coats	for each of M x 0.5 M to its full value of anti-co	20mm and f the pillars size provid width and depropertion proportion or the prosive pair	down size both ways for the down ways for eduing the down the down the down size of the dow	e jelly with for full width nm x 25mm overed with shape and		<i>201</i>	
7									
	Schedule Of Rates PRE, Mysor	e Circle 20)12-13 (F	Page No.3	ltem No.	4.8)			
		Nos	1				1	3970.00	3970.0
	Providing and fixing 60x60 cms M.S. M.S. angle 50x50x6mm and M.S. shocking arrangement, painting etc., co	utters of 31	.5mm or B	.G.10 thick	with hinges	on top and			
8									
	Schedule Of Rates PRE, Mysor								
	Inspection door 0.6*0.6	Nos	1				1	1787.00	1787.0
	Ladder inside the contaliner: Provide mm (approx.) "C" Section x 3.0 mm rungs at 250 mm C/C ladder flixen necessary 25mm dia., G.I. shutters like Tank walls to prevent buckling embedding the ladder bottom complete.	of ladder ed at an a with neces ig of lhe la	side chanr ngle of 70 sary G.I. fa	nels in to 2 degrees asteners for	5mm dia flu to horizonta bracing the	utal pipe for al including e ladders to			
9	Schedule Of Rates PRE,Mysor	e Circle 2	112 <u>-13 (</u> E	Page No 2	9 Item No.	46b)			
	Aluminium ladder	Rmt	1	4.25	, nem 140.	4.0 0)	4.25	2609.00	11088.0
10	Providing 2 coats of snowcem pair exposed faces, removing loose pl surface, replastering wherever required scaffolding & curing etc. (Including of	astering re uired in C.N	moval of v // 1:3 to th	vegetations	fungus, cl	leaning the			
. •	Schedule Of Rates PRE,Mysor								
	Side wall out side	sqm	3.142 (2x3.142)	4.50		1.50	21.21		
			•				E2 /1		
	Top dome	sqm	6.284	4.250	2.000		53.41		
	Top dome Deductions		6.284	4.250	2.000		55.41		
	•		6.284	4.250 0.60	0.60		-0.28		
	Deductions	sqm							

. No	. Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
	Supplying & Fixing CI puddle flange in position for R.C.C. walls including and lift etc., complete.								
11	Schedule Of Rates KUWS & DE	3, Karnatal	ka Board	2018-2019 (Page No.	.40			
а	CI Puddle Flanges								
	150 mm dia	Nos	2				2	5484.64	10969.0
	100 mm dia	Nos	1				1	3552.64	3553.0
b	CI double flanged pipes								
	150 mm dia	Mtr	10				10	4094.72	40947.0
	100 mm dia	Mtr	10				10	2686.88	26869.0
12	Supply and Delivery of resilient set Ductile iron of grade GGG50, wedge valves should be of vaccum tight and 89/IS 14846-2000/ DIN 3202 F4/F5 rings (minimum 2 "O" rings). All the bolts and nuts of required numbers a	e fully rubber d 100% leak 5,. The stea e valves Sha	lined with proof with m Sealing all be supp	EPDM and Sea face dimension Should be with suitab	als of NBR ns as per l th toroidal	R and the BS 5163- I sealing			
12	Ductile iron of grade GGG50, wedge valves should be of vaccum tight and 89/IS 14846-2000/ DIN 3202 F4/F5 rings (minimum 2 "O" rings). All the	e fully rubber d 100% leak 5,. The stea e valves Sha as per releva B, Karnatal	lined with proof with m Sealing all be supp nt IS PN 16	EPDM and Sea face dimension Should be wi lied with suitab 0	als of NBR ns as per l th toroidal le size ga	R and the BS 5163- I sealing alvanized	2.00	24040.00	40400.0
12	Ductile iron of grade GGG50, wedge valves should be of vaccum tight and 89/IS 14846-2000/ DIN 3202 F4/F5 rings (minimum 2 "O" rings). All the bolts and nuts of required numbers a Schedule Of Rates KUWS & DE Item No.II.2.10.1)	e fully rubber d 100% leak 5,. The stea e valves Sha as per releva B, Karnatal	lined with proof with m Sealing all be supp nt IS PN 10 ka Board	EPDM and Sea face dimension Should be wi lied with suitab 0	als of NBR ns as per l th toroidal le size ga	R and the BS 5163- I sealing alvanized	2.00	21240.80	42482.00
12	Ductile iron of grade GGG50, wedge valves should be of vaccum tight and 89/IS 14846-2000/ DIN 3202 F4/F5 rings (minimum 2 "O" rings). All the bolts and nuts of required numbers a Schedule Of Rates KUWS & DE Item No.II.2.10.1)	e fully rubber d 100% leak 5,. The stea e valves Sha as per releva B, Karnatal	lined with proof with m Sealing all be supp nt IS PN 16	EPDM and Sea face dimension Should be wi lied with suitab 0	als of NBR ns as per l th toroidal le size ga	R and the BS 5163- I sealing alvanized	2.00 1.00	21240.80 9578.24	42482.00 9578.00
12	Ductile iron of grade GGG50, wedge valves should be of vaccum tight and 89/IS 14846-2000/ DIN 3202 F4/F5 rings (minimum 2 "O" rings). All the bolts and nuts of required numbers a Schedule Of Rates KUWS & DE Item No.II.2.10.1)	e fully rubber d 100% leak 5,. The stea e valves Sha as per releva 6, Karnatal Each Each	lined with proof with m Sealing all be supp nt IS PN 16 ka Board 2	EPDM and Sea face dimension Should be wi lied with suitab 0	als of NBR ns as per l th toroidal le size ga	R and the BS 5163- I sealing alvanized			
	Ductile iron of grade GGG50, wedge valves should be of vaccum tight and 89/IS 14846-2000/ DIN 3202 F4/F5 rings (minimum 2 "O" rings). All the bolts and nuts of required numbers a Schedule Of Rates KUWS & DE Item No.II.2.10.1) 150 mm dia	e fully rubber d 100% leak 5,. The stea e valves Sha as per releva 6, Karnatal Each Each	lined with proof with m Sealing all be supp nt IS PN 16 ka Board 2	EPDM and Sea face dimension Should be wi lied with suitab 0	als of NBR ns as per l th toroidal le size ga	R and the BS 5163- I sealing alvanized			9578.0
	Ductile iron of grade GGG50, wedge valves should be of vaccum tight and 89/IS 14846-2000/ DIN 3202 F4/F5 rings (minimum 2 "O" rings). All the bolts and nuts of required numbers a Schedule Of Rates KUWS & DE Item No.II.2.10.1) 150 mm dia	e fully rubber d 100% leak 5,. The stea e valves Sha as per releva B, Karnatal Each Each Each	lined with proof with m Sealing all be supp nt IS PN 16 ka Board 2 1	EPDM and Sea face dimension Should be wi lied with suitab 0	als of NBR ns as per l th toroidal le size ga	R and the BS 5163- I sealing alvanized	1.00	9578.24	

Partition Wall

Plinth beam middle

SUB ESTIMATE: CONSTRUCTION OF MAIN PUMP HOUSE(NEAR P.W.SUMP)

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	KSRB 2-2.2 : Earthwork excavation and electrical conduits either in pits exceeding 1.5 m. in depth including stacking the excavated soil clear f breaking of clods complete as per sp	or in trench g dressing rom edges	es 1.5m a the bottor of excav	ind above in with leading and sides of the contraction with leading to the contraction with leading the	vidth, in har of pits and ad upto 50	d soil not trenches, m. after			
	Schedule Of Rates PWD,Mysore Item No.2.4)	e Circle 2	016-17 (Page No. 5					
	Allround	cum	1	22.42	0.90	1.05	21.19		
	Partition Wall	cum	1	4.25	0.75	0.60	1.91		
	Front Steps	cum	1	1.30	1.05	0.15	0.20		
	Ramp	cum	2	2.65	0.60	0.15	0.48		
	Columns Deduction for columns	cum	6	1.50	1.50	1.50	20.25		
		cum	-6	1.50	0.90	1.05	-8.51		
							35.52	283.00	10052.0
2	KSRB 4-1.3 : Providing and laying in cement @ 180kgs, with 40mm and @0.85cum and fine aggregates @ 0 in layers not exceeding 15 cms. this materials, labour, HOM of machiner No. KBS 4.1, 4.2 (Page No.12 Item I	down size 0.57cum mack, well cor y, curing co No.4.3)	e graded achine mix mpacted, i omplete a	granite metal ked, machine n foundation, s per specific	coarse ag mixed, cond including c	gregates crete laid ost of all			
	Schedule Of Rates PWD, Mysore Item No.4.3)	e Circle 20)16-17 (i	Page No.12					
	Allround	cum	1	22.42	0.90	0.15	3.03		

Front Steps	cum	1	1.30	1.05	0.15	0.20		
Ramp	cum	2	2.65	0.60	0.15	0.48		
Columns	cum	6	1.50	1.50	0.15	2.03		
Flagging alround	cum	1	25.34	1.00	0.10	2.53		
						8.75		
Deduct for columns								
	cum	-6	0.90	1.50	0.15	-1.22		
						-1.22		
Net Qty =	cum		8.75		-1.22	7.53	4867.00	36648.00

4.25

4.03

0.75

0.45

0.15

0.15

0.48

0.00

1

cum

cum

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
3	KSRB 4-6.1 : Providing and removing removal of form work for foundation including cost of all materials, labour of 4.6.2	ns, footing	s, bases of	columns 1	or mass	concrete			
	Schedule Of Rates PWD, Mysore	Circle 20	16-17 (Pag	e No.15 It	em No.4.	28)			
	Columns	Sqm	6	5.40		0.45	14.58 14.58	231.00	3367.00
4	KSRB 4.2.2: Providing and laying in powith OPC cement @ 320kgs, with 2 aggregates @0.878cum and fline aggrenisming to IS9103-1999 Reaffirmed exceeding 15 cms thick, vibrated for a roof slabs, staircase, lintels, retaining attached plasters, columns, piers, ablacing courses, parapets, coping, bed including cost of all materials, labo specifications. Specification No. KBS 4	20mm and gregates of 22008, mall works in walls, retubutments, plocks, and ur, HOM	down size @ 0.459cun achline mixe foundation p irn walls, wa pillars, posts ichor blocks,	graded gra n, with sup d, concrete linth and gr lls (any the , struts, bu plain winde	anite meta erplastisise laid in la ound floor ckness) i ttresses, s ow cills, fill	I coarse er @3lts yers not level for ncluding string or ets etc.,			
	Schedule Of Rates PWD,Mysore (Item No.4.11)	Circle 20°	16-17(Pag	e No.13					
	Columns	Cum	6	1.35	1.35	0.45	4.92 4.92	6011.00	29574.00
5	KSRB 4-6.5 : Providing and removin columns, pillars, piers, abutments, poincluding cost of all materials, labour of 4.6.2	st and stru	its, square /	rectangular	/ polygon	in plan			
	Schedule Of Rates PWD, Mysore	Circle 20	16-17 (Pag	e No.16 Ite	em No.4.3	32)			
	Columns	Sqm	6	0.92		4.40	24.29 24.29	366.00	8890.00
6	KSRB 4-6.7 :Providing and removing removal of form work for sides and so bressumers and lintels not exceeding complete as per specificaitons. Specific	offits of bea	ams, beam h pth including	aunchings,	cantilever	girders,			
	Schedule Of Rates PWD,Mysore	Circle 201	l6-17 (Pag	e No.16 ite	em No.4.3	34)			
	Plinth beam Middle beam Lintels Partition beam Main Beams	Sqm Sqm Sqm Sqm	1 x 2 1 x 2 1 x 2 1 x 2 3 x 2	22.42 4.25 22.42 4.25 4.25		0.15 0.15 0.15 0.15 0.30	6.72 1.28 6.72 1.28 7.66		
	Secondary Beams	Sqm	2 x 2	6.27		0.23	5.76 29.42	256.00	7531.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
7	KSRB 4.2.3 : Providing and lay OPC cement @ 240kgs, with 20 @0.878cum and fline aggregate exceeding 15 cms thick, vibrate roof slabs, staircase, lintels, ret attached plasters, columns, pie lacing courses, parapets, coping including cost of all materials specifications.(Excluding cost of KBS 4.1, 4.6	omm and down ses @ 0.459cum, do for all works in aining walls, refers, abutments, g, bed blocks, as, labour, HOM	ize gradeo machline n foundatio turn walls, pillars, po nchor bloo of mach	d granite meta mixed, concre on plinth and g walls (any t posts, struts, b cks, plain wind dinery, curing	ol coarse agete laid in la ground floor hickness) buttresses, dow cills, fi , complete	gregates ayers not r level for including string or llets etc., e as per			
	Schedule Of Rates PWD,My	sore Circle 20)16-17 (F	Page No.14 I	tem No.4.	12)			
а	Columns								
	Columns	Cum	6	0.23	0.23	4.40	1.40 1.40		
b	Plinth Beam	cum	1	22.42	0.45	0.15	1.51		
	Middle	cum	1	4.25	0.45	0.15	0.29		
							1.80		
С	Lintel beam	cum	1	22.42	0.23	0.15	0.77		
	Partition wall	cum	1	4.25	0.12	0.15	0.08		
d	Beams						0.85		
	Main Beams	cum	3	4.25	0.23	0.30	0.88		
	Secondary Beams	cum	2	6.27	0.23	0.23	0.66		
							1.54		
	Net Quantity =				= *		5.59	6367,00	35591.00
8	KSRB 5.2-3 : Providing and c foundation cement mortar 1:6, s high, bond stones at two m. apa complete as per specifications.	stone hammered art in each cours	d dressed	in courses no	ot less than	20 cms			
	Schedule Of Rates PWD,My Item No.5.6)	sore Circle 20)16-17 (F	Page No.25					
	lst step	cum	1	22.42	0.75	0.45	7.57		
	2nd	cum	1	22.42	0.60	0.45	6.05		
	Partition wall	cum	1	4.25	0.60	0.45	1.15		
	Deduct for columns	cum	-6	0.23	0.23	0.90	-0.29		
							14.48	4187.00	60627.00

No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
9	KSRB 5.3-3 : Providing and constant basement with cement mortar 1:6, 6 15 cms high, bond stones at two m. curing complete as per specification.	edges of sto apart in eac	nes chistle ch course ir	dressed in co	ourses not	less than			
	Schedule Of Rates PWD,Mysor	e Circle 20	016-17 (P	age No.25 I	tem No.5.	9)			
		cum	1	22.42	0.45	0.45	4.54		
						(0.45)/2			
	Ramp	cum	2	2.50	0.45	0.23	0.51		
	Partition Wall	cum	1	4.25	0.45	0.45	0.86		
	Deduct for columns	cum	-6	0.23	0.23	0.45	-0.14		
							5.77	5005.00	28878.00
10	KSRB 2.3 : Filling available excaval plinth in layers not exceeding 20 ramming after watering with lead up complete as per specifications. spec	cms. in de to 50 m. an	epth, comp d lift upto	acting each	deposited	layer by			
	Schedule Of Rates PWD,Mysor Item No.2.10)	e Circle 20	016-17 (P	age No.6					
		CUM					35.52	127.00	4511.00
11	KSRB 6-2.3 : Providing and constru- modular bricks of standard size of c 1:6 for basement and superstructure curing complete as per specifications	lass designa including c	ation 50 (talost of mate	ble moulded) rials, labour d	with cemer	nt mortar			
11	modular bricks of standard size of c 1:6 for basement and superstructure	lass designa including co s. Specificat	ation 50 (tal ost of mate ion No. KB	ble moulded) rials, labour o S 6.2	with cemei harges, sca	nt mortar affolding,			
11	modular bricks of standard size of c 1:6 for basement and superstructure curing complete as per specifications	lass designa including co s. Specificat	ation 50 (tal ost of mate ion No. KB	ble moulded) rials, labour o S 6.2	with cemei harges, sca	nt mortar affolding,	17.02		
11	modular bricks of standard size of c 1:6 for basement and superstructure curing complete as per specifications Schedule Of Rates PWD,Mysor	lass designa including cos. Specificate	ation 50 (talost of mate ion No. KB	ble moulded) rials, labour o S 6.2 age No.29 I	with cemein tharges, scatter No.6.	nt mortar affolding, 6)	17.02 2.32		
11	modular bricks of standard size of c 1:6 for basement and superstructure curing complete as per specifications Schedule Of Rates PWD,Myson Alround	lass designa including co s. Specificat re Circle 20 cum	ation 50 (talost of materion No. KB: 016-17 (P	ble moulded) rials, labour of S 6.2 age No.29 I	with cemer charges, sca tem No.6.	nt mortar affolding, 6) 3.30			
11	modular bricks of standard size of control of the same	lass designa e including co s. Specificat re Circle 20 cum cum	ation 50 (tal ost of mate ion No. KB: 016-17 (P 1	ble moulded) rials, labour of S 6.2 age No.29 I 22.42 22.42	with cemer charges, sca tem No.6. 0.23 0.23	nt mortar affolding, 6) 3.30 0.45	2.32		
11	modular bricks of standard size of control of the same	lass designa e including co s. Specificat re Circle 20 cum cum	ation 50 (tal ost of mate ion No. KB: 016-17 (P 1 1	ble moulded) rials, labour of S 6.2 age No.29 I 22.42 22.42 1.30	with cemer tharges, sca tem No.6. 0.23 0.23 0.30	nt mortar affolding, 6) 3.30 0.45 0.60	2.32 0.23		
11	modular bricks of standard size of control of the same and superstructure curing complete as per specifications. Schedule Of Rates PWD, Myson Alround Parapet wall	lass designa e including co s. Specificat re Circle 20 cum cum cum	ation 50 (tal ost of mate ion No. KB 016-17 (P 1 1 1	ble moulded) rials, labour of S 6.2 age No.29 I 22.42 22.42 1.30 1.30	with cemei harges, sca tem No.6. 0.23 0.23 0.30 0.30	affolding, 6) 3.30 0.45 0.60 0.40	2.32 0.23 0.16		
11	modular bricks of standard size of control of the same and superstructure curing complete as per specifications. Schedule Of Rates PWD, Myson Alround Parapet wall	lass designa e including co s. Specificat re Circle 20 cum cum cum	ation 50 (tal ost of mate ion No. KB 016-17 (P 1 1 1	ble moulded) rials, labour of S 6.2 age No.29 I 22.42 22.42 1.30 1.30	with cemei harges, sca tem No.6. 0.23 0.23 0.30 0.30	affolding, 6) 3.30 0.45 0.60 0.40	2.32 0.23 0.16 0.08		
11	modular bricks of standard size of c 1:6 for basement and superstructure curing complete as per specifications Schedule Of Rates PWD,Mysor Alround Parapet wall Front Steps	lass designa e including co s. Specificat re Circle 20 cum cum cum	ation 50 (tal ost of mate ion No. KB 016-17 (P 1 1 1	ble moulded) rials, labour of S 6.2 age No.29 I 22.42 22.42 1.30 1.30	with cemei harges, sca tem No.6. 0.23 0.23 0.30 0.30	affolding, 6) 3.30 0.45 0.60 0.40	2.32 0.23 0.16 0.08		
11	modular bricks of standard size of control of the c	lass designa e including co s. Specificat re Circle 20 cum cum cum cum	ation 50 (tal ost of mate ion No. KB 016-17 (P 1 1 1 1	ble moulded) rials, labour of S 6.2 age No.29 I 22.42 22.42 1.30 1.30 1.30	with cemei harges, sca tem No.6. 0.23 0.23 0.30 0.30 0.30	affolding, 3.30 0.45 0.60 0.40 0.20	2.32 0.23 0.16 0.08 19.81		
11	modular bricks of standard size of control of the c	lass designa e including co s. Specificat re Circle 20 cum cum cum cum cum	ation 50 (tal ost of mate ion No. KB 016-17 (P 1 1 1 1	ble moulded) rials, labour of S 6.2 age No.29 I 22.42 22.42 1.30 1.30 1.30	with cemer charges, sca tem No.6. 0.23 0.23 0.30 0.30 0.30	nt mortar affolding, 6) 3.30 0.45 0.60 0.40 0.20	2.32 0.23 0.16 0.08 19.81		
11	modular bricks of standard size of control 1:6 for basement and superstructure curing complete as per specifications. Schedule Of Rates PWD, Myson Alround Parapet wall Front Steps Deductions D W W1 RS	lass designate including constant including constant including constant including constant including court inc	ation 50 (tallost of mate ion No. KB) D16-17 (P 1 1 1 1 1 1 1	ble moulded) rials, labour of S 6.2 age No.29 I 22.42 22.42 1.30 1.30 1.30 1.50	with cemei tharges, sca tem No.6. 0.23 0.23 0.30 0.30 0.30	nt mortar affolding, 6) 3.30 0.45 0.60 0.40 0.20 2.10 1.20	2.32 0.23 0.16 0.08 19.81 0.48 0.41		
11	modular bricks of standard size of colors to the formula of the same of the sa	lass designa e including co s. Specificat re Circle 20 cum cum cum cum cum cum	ation 50 (talost of materion No. KB) O16-17 (P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ble moulded) rials, labour of S 6.2 age No.29 I 22.42 22.42 1.30 1.30 1.30 1.50 0.90 2.40 0.23	with cemei tharges, sca tem No.6. 0.23 0.23 0.30 0.30 0.30 0.23 0.23 0.2	affolding, 3.30 0.45 0.60 0.40 0.20 2.10 1.20 1.20	2.32 0.23 0.16 0.08 19.81 0.48 0.41 0.75		
11	modular bricks of standard size of collisions and superstructure curing complete as per specifications. Schedule Of Rates PWD, Mysor Alround Parapet wall Front Steps Deductions D W W1 RS Columns Lintel	lass designa e including co s. Specificat re Circle 20 cum cum cum cum cum cum	ation 50 (talost of materion No. KB) D16-17 (P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ble moulded) rials, labour of S 6.2 age No.29 I 22.42 22.42 1.30 1.30 1.30 1.50 0.90 2.40 0.23 22.42	with cemei harges, sca tem No.6. 0.23 0.23 0.30 0.30 0.30 0.23 0.23 0.2	affolding, 3.30 0.45 0.60 0.40 0.20 2.10 1.20 1.20 2.40 3.30 0.15	2.32 0.23 0.16 0.08 19.81 0.48 0.41 0.75 1.32		
11	modular bricks of standard size of collists for basement and superstructure curing complete as per specifications. Schedule Of Rates PWD, Mysor Alround Parapet wall Front Steps Deductions D W W1 RS Columns Lintel Main Beams	lass designate including constant including constant including constant including constant including court inc	ation 50 (talost of materion No. KB) D16-17 (P 1 1 1 1 1 1 1 2	ble moulded) rials, labour of S 6.2 age No.29 I 22.42 22.42 1.30 1.30 1.30 1.50 0.90 2.40 0.23 22.42 4.25	with cemei tharges, sca tem No.6. 0.23 0.23 0.30 0.30 0.30 0.23 0.23 0.2	affolding, 3.30 0.45 0.60 0.40 0.20 2.10 1.20 2.40 3.30	2.32 0.23 0.16 0.08 19.81 0.48 0.41 0.75 1.32 1.05		
11	modular bricks of standard size of collisions and superstructure curing complete as per specifications. Schedule Of Rates PWD, Mysor Alround Parapet wall Front Steps Deductions D W W1 RS Columns Lintel	lass designa e including cons. Specificat re Circle 20 cum cum cum cum cum cum cum cum cum cum	ation 50 (talost of materion No. KB) D16-17 (P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ble moulded) rials, labour of S 6.2 age No.29 I 22.42 22.42 1.30 1.30 1.30 1.50 0.90 2.40 0.23 22.42	with cemei harges, sca tem No.6. 0.23 0.23 0.30 0.30 0.30 0.23 0.23 0.2	affolding, 3.30 0.45 0.60 0.40 0.20 2.10 1.20 1.20 2.40 3.30 0.15	2.32 0.23 0.16 0.08 19.81 0.48 0.41 0.75 1.32 1.05 0.77 0.59 0.66		
11	modular bricks of standard size of collists for basement and superstructure curing complete as per specifications. Schedule Of Rates PWD, Mysor Alround Parapet wall Front Steps Deductions D W W1 RS Columns Lintel Main Beams	lass designa e including co s. Specificat re Circle 20 cum cum cum cum cum cum cum cum cum cu	ation 50 (talost of materion No. KB) D16-17 (P 1 1 1 1 1 1 1 2	ble moulded) rials, labour of S 6.2 age No.29 I 22.42 22.42 1.30 1.30 1.30 1.50 0.90 2.40 0.23 22.42 4.25	with cemel harges, sca tem No.6. 0.23 0.23 0.30 0.30 0.30 0.23 0.23 0.2	affolding, 3.30 0.45 0.60 0.40 0.20 2.10 1.20 1.20 2.40 3.30 0.15 0.30	2.32 0.23 0.16 0.08 19.81 0.48 0.41 0.75 1.32 1.05 0.77 0.59		

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
12	KSRB 6-7.4 :Construction of partiti burnt bricks of class designation (labour charges, scaffolding, curing 6.2	50 with cem	ent mortai	r 1:4 including	cost of	materials,			
	Schedule Of Rates PWD, Myso	re Circle 20)16-17 (F	Page No.31 I	tem No.	6.26)			
		sqm	1	4.25		3.15	13.39 13.39	891.00	11930.00
13	KSRB 4-6.7 :Providing and removaremoval of form work for sides and bressumers and lintels not exceed complete as per specificaitons. Spe	soffits of bo	eams, bea lepth inclu	m haunchings ding cost of a	, cantilev	er girders,			
	Schedule Of Rates PWD,Myso	re Circle 20	016-17 (F	Page No.16 I	tem No.	4.34)			
	Door	Sqm	1	1.15	0.60		0.69		
	W	Sqm	1	1.65	0.60		0.99		
	W1	Sqm	3	1.05	0.60		1.89		
	Rolling shutter	Sqm	1	2.55	0.60		1.53		
	-	·					5.10	256.00	1305.00
14	KSRB 4.2.10: Providing and layin M20 with OPC cement @ 24kgs, aggregates @0.5175cum and fi @0.225lts, machline mixed, well coupto ground floor level, including couping, complete as per specificate.	with 12mm a line aggregompacted for ost of all mate	and down ates @ plain chej erials, labo	size graded g 0.345cum, w ija of 7.5 cms. our, HOM of n	ranite me ith supe average nachlinery	etal coarse rplastisiser thickness, v, finishing,		ě	
17	M20 with OPC cement @ 24kgs, aggregates @0.5175cum and fi @0.225lts, machline mixed, well co	with 12mm a line aggreg ompacted for ost of all mal ions (Exclud 1, 4.6	and down ates @ of plain chej rerials, laboring cost of	size graded g 0.345cum, w ija of 7.5 cms. our, HOM of n f steel, fabrica	ranite me ith supe average nachlinery ation and	etal coarse rplastisiser thickness, v, finishing, plastering	0.69	8	
17	M20 with OPC cement @ 24kgs, aggregates @0.5175cum and f @0.225lts, machline mixed, well coupto ground floor level, including couring, complete as per specification charges). Specification No. KBS 4. Schedule Of Rates PWD, Myson Door	with 12mm a line aggreg ompacted for ost of all mai ions (Exclud 1, 4.6	and down ates @ plain chej erials, labo ing cost of 016-17 (F	size graded g 0.345cum, w ija of 7.5 cms. bur, HOM of n f steel, fabrica Page No.14 I 1.15 1.65	ranite me ith super average nachlinery ation and tem No. 0.60 0.60	etal coarse rplastisiser thickness, v, finishing, plastering	0.99		
17	M20 with OPC cement @ 24kgs, aggregates @0.5175cum and f @0.225lts, machline mixed, well coupto ground floor level, including couring, complete as per specification charges). Specification No. KBS 4.7 Schedule Of Rates PWD, Myson Door W	with 12mm a line aggreg ompacted for ost of all mai ions (Exclud 1, 4.6 re Circle 2 sqm sqm	and down ates @ plain chej rerials, labo ing cost o 016-17 (F 1 1	size graded g 0.345cum, w ija of 7.5 cms. our, HOM of n f steel, fabrica Page No.14 I 1.15 1.65 1.05	ranite me ith super average nachlinery ation and tem No. 0.60 0.60 0.60	etal coarse rplastisiser thickness, v, finishing, plastering	0.99 1.89	8	
17	M20 with OPC cement @ 24kgs, aggregates @0.5175cum and f @0.225lts, machline mixed, well coupto ground floor level, including couring, complete as per specification of charges). Specification No. KBS 4. Schedule Of Rates PWD, Myson Door	with 12mm a line aggreg ompacted for ost of all mai ions (Exclud 1, 4.6 re Circle 2 sqm	and down ates @ plain chej erials, labo ing cost of 016-17 (F	size graded g 0.345cum, w ija of 7.5 cms. bur, HOM of n f steel, fabrica Page No.14 I 1.15 1.65	ranite me ith super average nachlinery ation and tem No. 0.60 0.60	etal coarse rplastisiser thickness, v, finishing, plastering	0.99 1.89 1.53	456 00	2325 00
15	M20 with OPC cement @ 24kgs, aggregates @0.5175cum and f @0.225lts, machline mixed, well coupto ground floor level, including couring, complete as per specification charges). Specification No. KBS 4.7 Schedule Of Rates PWD, Myson Door W	with 12mm a line aggreg compacted for cost of all mai ions (Exclud 1, 4.6 The Circle 2 Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sq	and down ates @ plain chej rerials, laboring cost of 016-17 (F 1 1 3 1	size graded g 0.345cum, w ija of 7.5 cms. our, HOM of n f steel, fabrica Page No.14 I 1.15 1.65 1.05 2.55 ring, strutting, I floors, roofs, naterials, labo	ranite me ith super average nachlinery ation and tem No. 0.60 0.60 0.60 propping landings, our comple	etal coarse rplastisiser thickness, , finishing, plastering 4.19)	0.99 1.89	456.00	2325.00
	M20 with OPC cement @ 24kgs, aggregates @0.5175cum and f @0.225lts, machline mixed, well coupto ground floor level, including couring, complete as per specification charges). Specification No. KBS 4.2 Schedule Of Rates PWD, Myso Door W W1 Rolling shutter KSRB 4-6.2 : Providing and remoremoval of form work for flat surfa and likes, thickness upto 200 mm	with 12mm a line aggreg compacted for cost of all mai cons (Exclud 1, 4.6 Fre Circle 2 sqm sqm sqm sqm sqm coving centeri ce such as si including co	and down ates @ plain chei plain chei perials, labo ing cost o	size graded g 0.345cum, w ija of 7.5 cms. bur, HOM of n f steel, fabrica Page No.14 I 1.15 1.65 1.05 2.55 ring, strutting, I floors, roofs, naterials, labor	ranite me ith super average nachlinery ation and tem No. 0.60 0.60 0.60 propping landings, our comple ore than 3	etal coarse rplastisiser thickness, r, finishing, plastering 4.19)	0.99 1.89 1.53	456.00	2325.00
	M20 with OPC cement @ 24kgs, aggregates @0.5175cum and fi @0.225lts, machline mixed, well coupto ground floor level, including couring, complete as per specification charges). Specification No. KBS 4.7 Schedule Of Rates PWD, Myso Door W W1 Rolling shutter KSRB 4-6.2 : Providing and remover the country of	with 12mm a line aggreg compacted for cost of all mai cons (Exclud 1, 4.6 Fre Circle 2 sqm sqm sqm sqm sqm coving centeri ce such as si including co	and down ates @ plain chei plain chei perials, labo ing cost o	size graded g 0.345cum, w ija of 7.5 cms. bur, HOM of n f steel, fabrica Page No.14 I 1.15 1.65 1.05 2.55 ring, strutting, I floors, roofs, naterials, labor	ranite me ith super average nachlinery ation and tem No. 0.60 0.60 0.60 propping landings, our comple ore than 3	etal coarse rplastisiser thickness, r, finishing, plastering 4.19)	0.99 1.89 1.53	456.00	2325.00
	M20 with OPC cement @ 24kgs, aggregates @0.5175cum and fi @0.225lts, machline mixed, well coupto ground floor level, including couring, complete as per specification charges). Specification No. KBS 4.7 Schedule Of Rates PWD, Myson Door W W1 Rolling shutter KSRB 4-6.2 : Providing and remover removal of form work for flat surfa and likes, thickness upto 200 mm specifications. Specification No. KBS Schedule Of Rates PWD, Myson Schedule Of Rates PWD,	with 12mm a line aggreg compacted for lost of all mai lions (Exclud 1, 4.6 The Circle 2 Suppose supp	and down ates @ plain chej plain chej perials, labo ing cost o 016-17 (F 1 3 1 1 ng, shutter suspended ost of all n is for center	size graded g 0.345cum, w ija of 7.5 cms. bur, HOM of n f steel, fabrica Page No.14 I 1.15 1.65 1.05 2.55 ring, strutting, I floors, roofs, naterials, laborering height me	ranite me ith super average nachlinery ation and tem No. 0.60 0.60 0.60 propping landings, aur compliance than 3	etal coarse rplastisiser thickness, r, finishing, plastering 4.19)	0.99 1.89 1.53 5.10	456.00 550.00	
	M20 with OPC cement @ 24kgs, aggregates @0.5175cum and fi @0.225lts, machline mixed, well coupto ground floor level, including couring, complete as per specification charges). Specification No. KBS 4.7 Schedule Of Rates PWD, Myson Door W W1 Rolling shutter KSRB 4-6.2 : Providing and remover removal of form work for flat surfa and likes, thickness upto 200 mm specifications. Specification No. KBS Schedule Of Rates PWD, Myson Schedule Of Rates PWD,	with 12mm a line aggreg compacted for lost of all mal ions (Exclud 1, 4.6 ITE Circle 2 Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sq	and down ates @ plain chei plain chei plain chei plain chei prerials, laboring cost of the suspended post of all mass for center the suspended post of all m	size graded g 0.345cum, w ija of 7.5 cms. bur, HOM of n f steel, fabrica Page No.14 I 1.15 1.65 1.05 2.55 ring, strutting, I floors, roofs, naterials, laborering height mo ering height mo 6.50 ering, strutting ing cost of a	ranite me ith super average nachlinery ation and tem No. 0.60 0.60 0.60 0.60 propping landings, aur comple ore than 3 tem No. 4.25	etal coarse rplastisiser thickness, of, finishing, plastering 4.19) g etc., and balconies ete as per 3.5 mtrs. 4.29.2)	0.99 1.89 1.53 5.10		
15	M20 with OPC cement @ 24kgs, aggregates @0.5175cum and fi @0.225lts, machline mixed, well coupto ground floor level, including cocuring, complete as per specification No. KBS 4.7 Schedule Of Rates PWD, Myso Door W W1 Rolling shutter KSRB 4-6.2 : Providing and removal of form work for flat surfa and likes, thickness upto 200 mm specifications. Specification No. KBS Schedule Of Rates PWD, Myso Roof Slab KSRB 4-6.9 : Providing and removal generations and preached specifications are preached specifications and preached specifications and preached specifications and preached specifications are preached specifica	with 12mm a line aggreg compacted for cost of all mai cons (Exclud 1, 4.6 The Circle 2 Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sq	and down ates @ plain chei plain chei plain chei plain chei prerials, laboring cost of the suspended post of all mass for center the suspended post of all m	size graded g 0.345cum, w ija of 7.5 cms. bur, HOM of n f steel, fabrica Page No.14 I 1.15 1.65 1.05 2.55 ring, strutting, I floors, roofs, naterials, labouring height me 6.50 ering strutting ling cost of a	ranite me ith super average nachlinery ation and tem No. 0.60 0.60 0.60 0.60 propping landings, aur comple ore than 3 tem No. 4.25	etal coarse rplastisiser thickness, of, finishing, plastering 4.19) g etc., and balconies ete as per 3.5 mtrs. 4.29.2)	0.99 1.89 1.53 5.10		2325.00
15	M20 with OPC cement @ 24kgs, aggregates @0.5175cum and f @0.225lts, machline mixed, well coupto ground floor level, including couring, complete as per specification No. KBS 4.7 Schedule Of Rates PWD, Myso Door W W1 Rolling shutter KSRB 4-6.2 : Providing and remover and likes, thickness upto 200 mm specifications. Specification No. KBS Schedule Of Rates PWD, Myso Roof Slab KSRB 4-6.9 :Providing and removed ges of slabs and breaks in fluctomplete as per specification. Specification. Specification. Specification Specification Specification Specification Specification Specification. Specification S	with 12mm a line aggreg compacted for cost of all mai cons (Exclud 1, 4.6 The Circle 2 Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sq	and down ates @ plain chei plain chei plain chei plain chei prerials, laboring cost of the suspended post of all mass for center the suspended post of all m	size graded g 0.345cum, w ija of 7.5 cms. bur, HOM of n f steel, fabrica Page No.14 I 1.15 1.65 1.05 2.55 ring, strutting, I floors, roofs, naterials, labouring height me 6.50 ering strutting ling cost of a	ranite me ith super average nachlinery ation and tem No. 0.60 0.60 0.60 0.60 propping landings, aur comple ore than 3 tem No. 4.25	etal coarse rplastisiser thickness, of, finishing, plastering 4.19) g etc., and balconies ete as per 3.5 mtrs. 4.29.2)	0.99 1.89 1.53 5.10		

No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
17	KSRB 4.2.3 : Providing and laying OPC cement @ 240kgs, with 20m @0.878cum and fline aggregates exceeding 15 cms thick, vibrated roof slabs, staircase, lintels, retai attached plasters, columns, piers lacing courses, parapets, coping, including cost of all materials, specifications.(Excluding cost of KBS 4.1, 4.6	m and down @ 0.459cu for all works ning walls, s, abutment bed blocks labour, HC	n size graded of m, machline m in foundation return walls, v s, pillars, pos anchor block M of machlin	granite meta nixed, concre plinth and g valls (any tl ts, struts, b s, plain wind nery, curing	I coarse aggete laid in la pround floor nickness) i uttresses, adow cills, fil, complete	gregates ayers not level for including string or lets etc., as per			
	Schedule Of Rates PWD,Mys	ore Circle	2016-17 (Pa	ne No 14 I	tem No 4	12 \			
	Roof Slab	cum	1	6.96	4.71	0.15	4.92 4.92	6367.00	31325.00
18	Providing and fabricating TMT hooking, lapping and / or weldin binding wire of approved quality a the adjoining members wherever as per design specification and direction.	ng whereve and guage in necessary i	r required,place eluding cost concluding all la	cing in posi of binding wi os and wast	tion and ty re and anch ages ect., c	ring with noring to complete			
	Schedule Of Rates PRE,Mysc 2.11)	ore Circle	2012-13(Pa	ge No.VIII I	tem No.79	8.			
	Column Footing	Kgs	4.92Cum	@	80.00 kg/c	um	393.600		
	Columns	Kgs	1.40Cum	_	120.00 kg/		168.000		
	Plinth Beam	Kgs	1.80Cum	_	80.00 kg/c		144.000		
	Lintel	Kgs	0.85Cum	_	80.00 kg/c		68.000		
	Chejja	Kgs	0.38Cum	_	80.00 kg/c		30.600		
	Beams	Kgs	1.54Cum	_	120.00 kg/		184.800		
	Roof	Kgs	4.92Cum	@	120.00 kg/	/cum	590.400		
							1579.40 OR		
							1.58 MT	56697.50	89548.00
	KSRB 7.5 : Providing and fixing p				•				
19	18 guage, 75mm wide cold rolled bottom rail, with interlocking arrasuspension shaft with High tension designed pipe shaft, with bracke inside & outside locking with push handles with all fittings and accessover) cost of materials, labour, H size 3mx2.8 m Specification No. K	angements on coil type t plates, gu & pull opera ssories, pair IOM of macl	for steel laths springs two ide channels, ations complet ted with a coallinery comple	s by means numbers, me ball bearing e including p at of red lea	of alternation of alt	te clips, specially ents, for s, 4Nos. hout top			
19	bottom rail, with interlocking arrasuspension shaft with High tension designed pipe shaft, with bracke inside & outside locking with push handles with all fittings and accessover) cost of materials, labour, Hisize 3mx2.8 m Specification No. Ki	angements on coil type t plates, gu & pull oper ssories, pair IOM of macl BS 7.10 / 7.	for steel laths springs two ride channels, ations complet sted with a coa nlinery comple 12	s by means numbers, mo ball bearing e including p at of red lea te as per sp	of alterna punted on s arrangem pulling hook d paint (wit ecifications	te clips, specially ents, for s, 4Nos. hout top . Shutter			
19	bottom rail, with interlocking arra suspension shaft with High tension designed pipe shaft, with bracke inside & outside locking with push handles with all fittings and access cover) cost of materials, labour, H	angements on coil type t plates, gu & pull oper ssories, pair IOM of macl BS 7.10 / 7.	for steel laths springs two ride channels, ations complet sted with a coa nlinery comple 12	s by means numbers, mo ball bearing e including p at of red lea te as per sp	of alterna punted on s arrangem pulling hook d paint (wit ecifications	te clips, specially ents, for s, 4Nos. hout top . Shutter	5.76		

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
20	KSRB 7.6 : Providing and fixing to push rolling shutters bent to shap materials, labour, HOM of machline 7.10.6 / 7.12	e including	cost of re	d lead prim	er coat of	painting ,			
	Schedule Of Rates PWD, Myso	re Circle 20)16-17 (P	age No.35	Item No.	7.6)			
	RS	Rmt	1	2.70			2.70 2.70	473.00	1277.00
21	KSRB 9.4-3: Providing Mathi / Na ventilators and other frames, wroug (excluding cost of cement concre labour, HOM of machlineries compl	ht, framed or ete and side	assemble clamps),	d including r but includi	naking plas	ster groves materials,			
	Schedule Of Rates PWD,Myso	re Circle 20)16-17 (P	age No.54	Item No.	9.12)			
	D	Cum	1	6.50	0.100	0.075	0.05 0.05	80792.00	4039.00
22	KSRB 9.5-3 : Providing and fixing doors, styles and rails of 40mm. the styles 100mm wide as per drawing labour, HOM of machlineries comes Specification No. KBS 9.34	nick with both g and panels	om and lo	ck rails 180i thick includ	mm wide to	op rail and materials,			
	Schedule Of Rates PWD, Myso	re Circle 20)16-17 (P	age No.54	Item No.	9.16)			
	D	sqm	1	0.90		2.10	1.89 1.89	3925.00	7418.00
23	KSRB 7.7 : Providing and fixing in and ventilators side hung/top hung of 25x33x3mm, weighing 1.419 Kg section of size 25x46x3mm. weighing 0.839 kg/m for glazing of and fixing 4mm. thick reeded glasections should confirm to I.S 74 should be cut to length welded an tenonned and revetted into the fra cleaned free of rust and painted w coats of ready mix paint of approviation and HOM of machlinery company control in the side of the side o	fully openably moth for ching 2.28Kg windows not ass with tea 52:1990, 4nd electrically mes electricatione coat ded colour and	le as per all outer and g/m duly progrethan kwood bear os. of hold grinded sully. All the of anti-corred make income.	pproved dra inner frames providing T 34 cms. c to ading of red affasts of ap abdividing fra steel surfac posive paint a cluding cost	wings usin s and cent section 19 c including quired size proved size ames of ure shall be and finishin of material	g Z angles gral mullion 9x19x3mm g providing e, all steel te, section hit shall be thoroughly g with two s, fixtures,			
	/7.12.2 / 7.12.3 / 7.12								
		re Circle 20)16-17 (P	age No.35	Item No.	7.7)			
	/7.12.2 / 7.12.3 / 7.12	re Circle 20 sqm sqm	0 16-17 (P 1 3	age No.35 1.50 0.90	Item No.	7.7) 1.20 1.20	1.80 3.24		

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
24	KSRB15-3-13 : Providing 12mm t	hick cement	plaster in si	ngle coat with	cement r	nortar 1:3,			
	to ceiling including rounding off								
	and removing scaffolding, include	ding cost of	materials,	labour, curin	g comple	te as per			
	specifications.								
	Schedule Of Rates PWD,Mys	ore Circle	2016-17 (F	Page No.116	Item No	.15.21)			
	Pump room	sqm	1	4.39	4.25		18.64		
	Room	sqm	1	2.00	4.25		8.50		
	Beam sides	sqm	1 x 2	4.25		0.30	2.56		
							29.70	193.00	5732.0
25	KSRB15-3.3 : Providing 12mm thi	ak aamant n	actor in aine	ilo oost with o	amont mo	dor 1:E to			
ZJ	brick masonry including rounding								
	Providing and removing scaffolding	-		•		•			
	per specifications.	·9,		,,	g				
	Schedule Of Rates PWD,Mys	ore Circle	2016-17 (F	Page No.115	Item No	.15.11)			
	For Inside Walls								
	Pump room	sqm	1	17.27		3.30	56.99		
	Room	sqm	1	12.50		3.30	41.25		
		·					98.24		,
	Deductions								
	D	sqm	-1	1.00		2.10	-2.10		
	W	sqm	-1	1.50		1.20	-1.80		
	W1	sqm	-3	0.90		1.20	-3.24		
	RS	sqm	-1	2.40		2.40	-5.76		
							85.34	150.00	12801.0
26	KSRB15-7 : Providing lime rend	ering for pla	sterina to v	vall and ceilin	a. includii	na cost of			
	materials, labour, curing complete		•		•				
	Schedule Of Rates PWD,Mys	ore Circle	2016-17 (F	Page No.124	Item No	.15.33)			
	Ceiling	sqm	Quantity v	ide Item No. 2	4		29.70		
	Inside Walls	sqm	Quantity v	ide Item No. 2	5		85.34		
							115.04	25.00	2876.0
27	KSRB15-3.9 :Providing 18mm thi	ck coment ni	actor in cina	ilo coat with o	omont mo	tor 1:6 to			
۷,	brick masonry including rounding	•	_			•			
	Providing and removing scaffolding								
	per specifications.	J, J		, ,					
	Schedule Of Rates PWD, Mys	ore Circle	2016-17 (F	Page No.116	Item No	.15.17)			
	Out Side Walls		·			•			
	Qty as per item No.14	sqm		1.50	x	5.10	7.65		
	Alround	sqm	1	23.34		3.45	80.52		
	Parapet	sqm	1	22.42		1.13	25.33		
	, 55						113.50		
	Deduction								
	D	sqm	-1	1.00		2.10	-2.10		
	D W	sqm sqm	-1 -1	1.50		2.10 1.20	-2.10 -1.80		
	D	•							
	D W	sqm	-1	1.50		1.20	-1.80		

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
28	KSRB 14.9-2 : Providing and layir metallic concrete hardner topping, u broken granite metal of 20mm and chardner consisting of mix 1:2 (1 central by volume, with metalic hardening capart of cement = 1 part of metallic flincluding finishing, cost of material Specification No. KBS 14.4	nder layer down size a nent hardn ompound c loor harder	of 45mm to and top lay er mix : 2 g of approved ning compo	hick M-15 co er of 15mm ranite metal I quality mix ound of appr	ement con thick meta 10mm no in the rati oved qual	acrete using allic cement minal size) o of 4:1 (4 ity by wt) ,			
	Schedule Of Rates PWD, Mysor	e Circle 2	016-17 (F	age No.10	4 Item N	o.14.14)			
	Pump room	sqm	1	4.39	4.250		18.64 18.64	673.00	12544.0
29	KSRB 14.7-3 : Providing and laying 6 M-15 cement concrete, using broken 10mm thick plaster with cement me including cost of materials, labour, c KBS 14.3	granite mo ortar 1:3, f	etal of 12.5 inished wit	mm nomina h floating c	size and pat of nea	top layer of at cement,			
	Schedule Of Rates PWD, Mysor	e Circle 2	016-17 (F	Page No.10	4 Item N	o.14.10)			
	Room	sqm	1	2.00	4.250		8.50		
							8.50	517.00	4394.0
	preparation of surfaces as required neat cement using 2.75 kg/sqm compound conforming to IS:2645 of treatment. (b) Laying cement concreted to the surface of cement mortar 1:5 admixed IS:2645 over 20mm thick layer of cercompound to required slope and traincluding rounding off junctions of applying a second coat of cement sludy as second coat of cement sludy water proofing compound cement slurry and making of 300x30 flooded with water for a minimum percost of materials, labour complete as	of cement over the Rete using be with propresent mortal eating similal walls and urry admixed thick joint d and final omm squal	admixed acroken bricken bricken bricken bricken to acrow a transfer of the control of the contro	with propri ifter cleaning to bats 25mm or proofing of ed with proprijoining walls After two disprietary water at mortar of the surface whole terrace	etary wat g the surf n to 100m ompound rietary was s upto 300 ays of pro- er proofing mix 1:4 ac with trow e so finish	er proofing face before m size with conforming ter proofing Dmm height oper curing, compound dmixed with el and neat ned shall be			26
	Schedule Of Rates PWD, Mysor	e Circle 2	016-17 (F	age No.67	Item No	.10.2)			
		Sqm	1	6.50	4.25		27.63 27.63	904.00	24977.0
31	KSRB 15-14.1 : Providing and app approved brand and shade on wall after thoroughly brooming the surfaincluding preparing the surface ever complete as per specifications.	surface ir ace free fr	ocluding pri	ming coat v	vith dister other for	nper primer eign matter			
	Schedule Of Rates PWD,Mysor	e Circle 2	016-17 (F	Page No.11	9 Item N	o.15.49.1			
) Ceiling	sqm	Quantity vi	de item NO.	24		29.70		
	Inside Plastering	sqm	Quantity vi	de item NO.	25		85.34		
							115.04	71.00	8167.0

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
32	KSRB 15-16.1 : Providing and finish paint of approved brand and shade surface to remove all dirt and loose foreign matter cost of materials, labo	to give an powdered	even sha material,	de after thor free from mo	oughly l ortar dro	prooming the			
	Schedule Of Rates PWD,Mysor	e Circle 20	D16-17 (I	Page No.12	0 item i	No.15.53.1			
	Quantity vide item NO.27	Sqm					100.60 100.60	69.00	6941.00
33	KSRB 15.1.3 -do- Providing ruled providing ruled providing 1:3, 20mm deep, after raking join materials, labour, curing complete as	ts to depth	of 20mr	•	,				
	Schedule Of Rates PWD, Mysor	e Circle 2	016-17 (Page No.11	5 Item I	No.15.3)			
		Sqm	1	23.34		0.450	10.50 10.50	98.00	1029.00
34	KSRB 8.6-3: Providing and fixing of 75mm dia including filling the joints necessary specials like shoes, bend including cost of materials, labour, of KBS 8.27, 8.28	with spun s and offse	yarn soak ts fixed wi	ed in neat c th iron clamp	ement s s, wall p	lurry 1:2 with lugs, screws,			
	Schedule Of Rates PWD, Mysor	e Circle 2	016-17 (Page No.50	item N	o.8.14)			
		Rmt	2	4.18			8.36 8.36	409.00	3419.00
35	KSRB 15-17.6: Providing and apply wood surface and / or wood base cleaning the surface of all dirt, duranterials, labour, complete as per specific complete.	ed surface st and fore	with enan ign matter	nel paint to	give an	even shade,			
	Schedule Of Rates PWD,Myson	e Circle 2	016-17 (Page No.12	1 Item	No.15.60.1			
) D	Sqm	2.25	1	1.00	2.10	4.73 4.73	84.00	397.00
									621995.00
36	Providing Electrical services.			At	5%	of civil works			31100.00
37	Providing Sanitary services.			At	5%	of civil works			31100.00
38	Miscellaneous such as fixtures to do	ors & windo	ows etc.,						805.00
	Co Olanjueth	0- 4	211	24		T	otal =		685000.00

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

SUB ESTIMATE: CONSTRUCTION OF PUMP HOUSE (BACK WASH)

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	KSRB 2-2.2: Earthwork excavation f and electrical conduits either in pits of exceeding 1.5 m. in depth including stacking the excavated soil clear fr breaking of clods complete as per spe	or in trencho dressing to om edges	es 1.5m an the bottom of excava	d above in wi and sides of tion with lea	idth, in hare f pits and t d upto 50	d soil not trenches, m. after			
	Schedule Of Rates PWD,Mysore Item No.2.4)	e Circle 2	016-17 (P	age No. 5					
	Allround	cum	1	12.92	1.20	1.05	16.28		
	Front Steps	cum	1	1.05	0.60	0.15	0.09		
							16.37	283.00	4632.00
2	@0.892cum and fline aggregates @ laid in layers not exceeding 15 cms. all materials, labour, HOM of m Specification No. KBS 4.1, 4.2 Schedule Of Rates PWD, Mysore Item No.4.2)	thick, well nachlinery,	compacted curing co	, in foundatio omplete as	n and plint	h, cost of			
2	laid in layers not exceeding 15 cms. all materials, labour, HOM of m Specification No. KBS 4.1, 4.2 Schedule Of Rates PWD, Mysore	thick, well nachlinery,	compacted curing co	, in foundatio omplete as	n and plint	h, cost of	2.33		
2	laid in layers not exceeding 15 cms. all materials, labour, HOM of m Specification No. KBS 4.1, 4.2 Schedule Of Rates PWD, Mysore Item No.4.2)	thick, well nachlinery, e Circle 2	compacted curing co	, in foundatio omplete as	n and plint per speci	h, cost of fications.	2.33 0.09		
2	laid in layers not exceeding 15 cms. all materials, labour, HOM of m Specification No. KBS 4.1, 4.2 Schedule Of Rates PWD, Mysore Item No.4.2) Allround	thick, well nachlinery, e Circle 2 cum	compacted curing co	, in foundation omplete as Page No.12	n and plint per speci	h, cost of fications.			
2	laid in layers not exceeding 15 cms. all materials, labour, HOM of m Specification No. KBS 4.1, 4.2 Schedule Of Rates PWD, Mysore Item No.4.2) Allround Front Steps	thick, well nachlinery, e Circle 2 cum cum	compacted curing co 016-17 (F 1 1	n in foundation	n and plint per speci 1.20 0.60	n, cost of fications. 0.15 0.15	0.09	5046.00	21193.00
	laid in layers not exceeding 15 cms. all materials, labour, HOM of m Specification No. KBS 4.1, 4.2 Schedule Of Rates PWD, Mysore Item No.4.2) Allround Front Steps	thick, well nachlinery, e Circle 2: cum cum cum ng centerin	compacted curing co	in foundation omplete as tage No.12 12.92 1.05 17.84 Ing, strutting, on haunchings the diagram of the structure of the stru	n and plint per speci 1.20 0.60 1.00 propping s, cantileve	0.15 0.15 0.10 etc., and	0.09 1.78	5046.00	21193.00
2	laid in layers not exceeding 15 cms. all materials, labour, HOM of m Specification No. KBS 4.1, 4.2 Schedule Of Rates PWD, Mysore Item No.4.2) Allround Front Steps Flagging alround KSRB 4-6.7 :Providing and removing removal of form work for sides and shressumers and lintels not exceeding	thick, well nachlinery, e Circle 2: cum cum cum ng centeringsoffits of being 1m in confication No	compacted curing co	n, in foundation omplete as rage No.12 12.92 1.05 17.84 ng, strutting, in haunchings ding cost of a second	n and plint per speci 1.20 0.60 1.00 propping s, cantileve	0.15 0.15 0.10 etc., and r girders, s, labour	0.09 1.78	5046.00	21193.00
	laid in layers not exceeding 15 cms. all materials, labour, HOM of m Specification No. KBS 4.1, 4.2 Schedule Of Rates PWD, Mysore Item No.4.2) Allround Front Steps Flagging alround KSRB 4-6.7 :Providing and removing removal of form work for sides and a bressumers and lintels not exceeding complete as per specificaitons. Specifically Schedule Of Rates PWD, Mysore Schedule Of Rates PWD, Mysor	thick, well nachlinery, e Circle 2 cum cum cum soffits of bong 1m in confication Note Circle 2	compacted curing continued to the continued to the curing continued to the curing, shuttering earns, bear depth included. KBS 4.6.2	in foundation omplete as rage No.12 12.92 1.05 17.84 Ing, strutting, in haunchings ding cost of a rage No.16	n and plint per speci 1.20 0.60 1.00 propping s, cantileve	0.15 0.15 0.10 etc., and r girders, s, labour	0.09 1.78 4.20	5046.00	21193.00
	laid in layers not exceeding 15 cms. all materials, labour, HOM of m Specification No. KBS 4.1, 4.2 Schedule Of Rates PWD, Mysore Item No.4.2) Allround Front Steps Flagging alround KSRB 4-6.7 :Providing and removing removal of form work for sides and a bressumers and lintels not exceeding complete as per specificaitons. Specifically all the steps of t	thick, well nachlinery, e Circle 2: cum cum cum ng centeringsoffits of being 1m in confication No	compacted curing co	n, in foundation omplete as rage No.12 12.92 1.05 17.84 ng, strutting, in haunchings ding cost of a second	n and plint per speci 1.20 0.60 1.00 propping s, cantileve	0.15 0.15 0.10 etc., and r girders, s, labour	0.09 1.78	5046.00	21193.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
	KSRB 4.2.2: Providing and laying with OPC cement @ 320kgs, vaggregates @0.878cum and flir confirming to IS9103-1999 Reaf exceeding 15 cms thick, vibrated roof slabs, staircase, lintels, retaattached plasters, columns, pier lacing courses, parapets, coping including cost of all materials, specifications. Specification No. Is	with 20mm and ne aggregates firmed-2008, m for all works in the ining walls, returns, abutments, bed blocks, ar labour, HOM	down : @ 0.45! achline foundati urn walls pillars, p	size graded graded graden, with superior with superior graden gra	ranite meta perplastisis de laid in la pround floo hickness) puttresses, dow cills, fi	al coarse ser @3lts ayers not r level for including string or illets etc.,			
4	Schedule Of Rates PWD,Mys Item No.4.11)	sore Circle 20	16-17 (Page No.13					
	Plinth Beam	cum	1	12.92	0.45	0.10	0.58		
	Lintel beam	cum	1	12.92	0.23	0.15	0.45		
5	KSRB 5.2-3 : Providing and confoundation cement mortar 1:6, shigh, bond stones at two m. apar complete as per specifications. KSChedule Of Rates PWD, Mystem No.5.6)	tone hammered rt in each course BS 5.1.13	l dresse e includi	d in courses no	ot less tha	n 20 cms	6.10 5.23 11.33	4187.00	47438.00
6	KSRB 5.3-3 : Providing and control basement with cement mortar 1:15 cms high, bond stones at two curing complete as per specificate. Schedule Of Rates PWD, Myster 1:15 cms high, bond stones at two curing complete as per specificate.	6, edges of ston m. apart in eacl ions. KBS 5.1.1	es chist n course 3	le dressed in co including cost	ourses not of materia	less than is, labour,	2.62	5005.00	40440.00
							2.62	5005.00	13113.00
7	KSRB 2.3 : Filling available excaplinth in layers not exceeding ramming after watering with lead complete as per specifications. s Schedule Of Rates PWD,My Item No.2.10)	20 cms. in de I upto 50 m. and pecification. No.	pth, cond lift upto	npacting each o 1.5 m. includi 9	deposited	layer by			
		CUM					16.37	127.00	2078.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
	KSRB 6-2.3 : Providing and construmodular bricks of standard size of classification of the standard superstruscaffolding, curing complete as per standard superstruscaffolding.	ass designa	ition 50 (tab	le moulded) of materials	with ceme , labour	nt mortar			
8	Schedule Of Rates PWD,Mysor	e Circle 20	016-17 (Pa	age No.29 I	tem No.6	.6)			
	Alround	cum	1	12.92	0.23	3.00	8.91		
	Parapet wall	cum	1	12.92	0.23	0.45	1.34		
	Front Steps	cum	1	2.00	0.30	0.60	0.36		
	·	cum	1	2.00	0.30	0.40	0.24		
		cum	1	2.00	0.30	0.20	0.12		
							10.97		
	Deductions								
	D	cum	1	1.00	0.23	2.10	0.48		
	W	cum	2	0.90	0.23	1.20	0.50		
	Lintel	cum	1	12.92	0.23	0.15	0.45		
		-	·		0.20	00	1.43		
							1.10		
				40.0=		1.43	0.54	6685.00	63774.00
	KSRB 4-6.7 :Providing and remov	ing centerin	-			etc., and	9.54	0005.00	00774.00
9	removal of form work for sides and bressumers and lintels not exceed complete as per specificaitons. Specifications of the specification of the specificatio	ing centerin soffits of be ing 1m in d cification No re Circle 2d Sqm	g, shutterin eams, beam epth includ . KBS 4.6.2 016-17 (Pa	ng, strutting, In haunchings Ing cost of a age No.16	s, cantileve all material Item No.4 0.60	etc., and or girders, ls, labour	0.69	0003.00	03774.00
9	removal of form work for sides and bressumers and lintels not exceed complete as per specificaitons. Spec Schedule Of Rates PWD,Myson	ing centerin soffits of be ing 1m in d cification No re Circle 2	g, shutterin eams, beam epth includ . KBS 4.6.2	ng, strutting, n haunchings ing cost of a age No.16	cantileve all material	etc., and or girders, ls, labour	es.	0003.00	03774.00
9	removal of form work for sides and bressumers and lintels not exceed complete as per specificaitons. Specifications of the specification of the specificatio	ing centerin soffits of be ing 1m in d cification No re Circle 2d Sqm	g, shutterin eams, beam epth includ . KBS 4.6.2 016-17 (Pa	ng, strutting, In haunchings Ing cost of a age No.16	s, cantileve all material Item No.4 0.60	etc., and or girders, ls, labour	0.69	256.00	499.00
9	removal of form work for sides and bressumers and lintels not exceed complete as per specificaitons. Specifications. Specifications of the specifications of the specifications of the specifications. Specifications of the specification of th	ing centering soffits of being 1m in dicification No re Circle 2d Sqm Sqm Sqm on aggregation and aggregations (Excluding 4.6	g, shuttering earns, beam epth includ to the content of the conten	ig, strutting, in haunchings ing cost of a age No.16 if 1.15 1.05 cement con ize graded g 345cum, with a of 7.5 cms. ur, HOM of m steel, fabrica	o.60 crete of de ranite met ith superparente average trachlinery, ation and p	etc., and or girders, ls, labour ls.34) esign mix al coarse plastisiser hickness, finishing, plastering	0.69 1.26		
	removal of form work for sides and bressumers and lintels not exceed complete as per specifications. Specifications. Specifications of the specifications of the specifications of the specifications of the specification	ing centering soffits of being 1m in dicification No re Circle 2d Sqm Sqm Sqm on aggregation and aggregations (Excluding 4.6	g, shuttering earns, beam epth includ to the content of the conten	ig, strutting, in haunchings ing cost of a age No.16 if 1.15 1.05 cement con ize graded g 345cum, with a of 7.5 cms. ur, HOM of m steel, fabrica	o.60 crete of de ranite met ith superparente average trachlinery, ation and p	etc., and or girders, ls, labour ls.34) esign mix al coarse plastisiser hickness, finishing, plastering	0.69 1.26		
	removal of form work for sides and bressumers and lintels not exceed complete as per specificaitons. Specifications. Specifications of the specifications of the specifications of the specifications. Specifications of the specification of th	ing centering soffits of being 1m in dicification No re Circle 2d Sqm Sqm Sqm on aggregation and aggregations (Excluding 4.6	g, shuttering earns, beam epth includ to the content of the conten	ig, strutting, in haunchings ing cost of a age No.16 if 1.15 1.05 cement con ize graded g 345cum, with a of 7.5 cms. ur, HOM of m steel, fabrica	o.60 crete of de ranite met ith superparente average trachlinery, ation and p	etc., and or girders, ls, labour ls.34) esign mix al coarse plastisiser hickness, finishing, plastering	0.69 1.26		
	removal of form work for sides and bressumers and lintels not exceed complete as per specifications. Specifications. Specifications of the specifications of the specifications. Specification of the	ing centering soffits of being 1m in dicification No re Circle 2d Sqm Sqm Sqm on eaggregampacted for st of all matters (Excluding 4.6)	g, shuttering earns, beam epth includ. KBS 4.6.2 016-17 (Particle of the property of the pro	age No.16 In the steel, fabrical age No.14 in steel, fabrical age No.14 in steel, sage No.14 in the steel age No.1	o.60 0.60 crete of deranite met ith superprayerage trachlinery, ation and particular No.4	etc., and or girders, ls, labour ls.34) esign mix al coarse plastisiser hickness, finishing, plastering	0.69 1.26 1.95		

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
	KSRB 4-6.2 : Providing and remove removal of form work for flat surface and likes, thickness upto 200 mm is specifications. Specification No. KBS	e such as including c	suspended fl ost of all ma	oors, roofs, terials, labo	landings, ur comple	balconies ete as per			
11									
	Schedule Of Rates PWD,Mysor	e Circle 2	2016-17 (Pa	age No.15	tem No.	4.29.2)			
	Roof Slab	Sqm	1	3.00	3.00		9.00 9.00	550.00	4950.00
12	KSRB 4-6.9 :Providing and removedges of slabs and breaks in floorcomplete as per specificaiton. Speci	or, cills, p fication No	linth includin . KBS 4.6.2	g cost of a					
	Schedule Of Rates PWD,Mysor Item No.4.36)		•						
	Roof Slab	Sqm	1	15.68		0.13	1.96 1.96	678.00	1328.00
	manufacture at the control of the	U				or level for			
	roof slabs, staircase, lintels, retaining attached plasters, columns, piers, lacing courses, parapets, coping, bincluding cost of all materials, laspecifications. Specification No. KBS	abutments ed blocks, bour, HOl	eturn walls, v s, pillars, pos anchor block	valls (any t sts, struts, b s, plain win	hickness) outtresses, dow cills,	including string or fillets etc.,		ene:	
13	attached plasters, columns, piers, lacing courses, parapets, coping, bincluding cost of all materials, la specifications. Specification No. KBS	abutments ed blocks, bour, HOI S 4.1, 4.6	eturn walls, v s, pillars, pos anchor block M of machli	valls (any t sts, struts, b ss, plain wind nery, curing	hickness) outtresses, dow cills,	including string or fillets etc.,		#:H:	
13	attached plasters, columns, piers, lacing courses, parapets, coping, bincluding cost of all materials, la specifications. Specification No. KBS	abutments ed blocks, bour, HOI S 4.1, 4.6	eturn walls, v s, pillars, pos anchor block M of machli	valls (any t sts, struts, b ss, plain wind nery, curing	hickness) outtresses, dow cills,	including string or fillets etc.,	1.50 1.50	6011.00	9016.00
13	attached plasters, columns, piers, lacing courses, parapets, coping, bincluding cost of all materials, la specifications. Specification No. KBS Schedule Of Rates PWD, Mysor Item No.4.11)	abutments ed blocks, bour, HOI S 4.1, 4.6 re Circle : cum inforcement wherever d guage in ecessary ir	eturn walls, vos., pillars, pos anchor block of machling 2016-17 (Post 1	valls (any to sts, struts, but sts, struts, but sts, plain winder, curing age No.13 3.46 straightening in posof binding with posof structure and wastern and wa	nickness) buttresses, dow cills, , complete 3.46 g cutting, ition and ire and an ages ect.	o including the string or fillets etc., the as per 0.13 bending, tying with inchoring to the complete		6011.00	9016.00
13	attached plasters, columns, piers, lacing courses, parapets, coping, by including cost of all materials, la specifications. Specification No. KBS Schedule Of Rates PWD, Mysor Item No.4.11) Roof Slab Providing and fabricating TMT re hooking, lapping and / or welding binding wire of approved quality and the adjoining members wherever necessity.	abutments ed blocks, bour, HOI S 4.1, 4.6 re Circle : cum inforcement wherever d guage in ecessary in ctions (laps	eturn walls, vos., pillars, pos anchor block of machling 2016-17 (Post 1 1 ant including, required, placed cluding cost acluding all lass and wastage	valls (any to sts, struts, but sts, struts, but sts, plain winder, curing age No.13 3.46 straightening in posof binding with posof binding with posof structure and wastes not to be	nickness) buttresses, dow cills, , completed 3.46 g cutting, ition and ire and an ages ect. measured	o including the string or fillets etc., the as per 0.13 bending, tying with inchoring to the complete and paid)		6011.00	9016.00
	attached plasters, columns, piers, lacing courses, parapets, coping, by including cost of all materials, la specifications. Specification No. KBS Schedule Of Rates PWD, Mysoo Item No.4.11) Roof Slab Providing and fabricating TMT re hooking, lapping and / or welding binding wire of approved quality and the adjoining members wherever not as per design specification and direct Schedule Of Rates PRE, Mysoo Schedule Of Rat	abutments ed blocks, bour, HOI S 4.1, 4.6 re Circle : cum inforcement wherever d guage in ecessary in ctions (laps	eturn walls, vos., pillars, pos anchor block of machling 2016-17 (Post 1 1 ant including, required, placed cluding cost acluding all lass and wastage	valls (any to sts, struts, but sts, struts, but sts, struts, but straight ening age No.13 3.46 straight ening in posof binding with posof binding with posof binding with ps and was ses not to be age No.VIII	nickness) buttresses, dow cills, , completed 3.46 g cutting, ition and ire and an ages ect. measured	o including string or fillets etc., te as per 0.13 bending, tying with achoring to complete and paid)		6011.00	9016.00
	attached plasters, columns, piers, lacing courses, parapets, coping, brincluding cost of all materials, lasspecifications. Specification No. KBS Schedule Of Rates PWD, Mysor Item No.4.11) Roof Slab Providing and fabricating TMT reshooking, lapping and / or welding binding wire of approved quality and the adjoining members wherever not as per design specification and direct schedule Of Rates PRE, Mysor 2.11) Lintel Chejja	abutments ed blocks, bour, HOl S 4.1, 4.6 re Circle : cum inforcement wherever d guage in ecessary in ctions (laps	eturn walls, was, pillars, post anchor block of machling and including, a required, placed cluding all lass and wastage 0.45Cum 0.15Cum	valls (any to sts, struts, but sts, struts, but sts, struts, but straightening age No.13 3.46 straightening in posof binding with posof binding	dow cills, completed and an and an anges ect. The No. 10, 80.00 kg 80.00 kg	o including string or fillets etc., te as per 0.13 bending, tying with achoring to complete and paid)	36.000 11.700	6011.00	9016.00
	attached plasters, columns, piers, lacing courses, parapets, coping, be including cost of all materials, la specifications. Specification No. KBS Schedule Of Rates PWD, Mysor Item No.4.11) Roof Slab Providing and fabricating TMT re hooking, lapping and / or welding binding wire of approved quality and the adjoining members wherever not as per design specification and direct Schedule Of Rates PRE, Mysor 2.11) Lintel	abutments ed blocks, bour, HOI S 4.1, 4.6 re Circle : cum inforcement wherever d guage in ecessary in ctions (laps	eturn walls, varieturn walls, varieturn walls, varieturn, postanchor block of machling and including, are required, placeluding costancial diagrams and wastage 0.45Cum	valls (any to sts, struts, but sts, struts, but sts, struts, but straightening age No.13 3.46 straightening in posof binding with posof binding	dow cills, completed and and and and and and and and and an	o including string or fillets etc., te as per 0.13 bending, tying with achoring to complete and paid)	1.50 36.000	6011.00	9016.0

 MT

13040.00

56697.50

0.23

KSRB15-3-13: Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.116 Item No.15.21)

18

Room sqm 1 3.00 3.00 9.00

No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
							9.00	193.00	1737.00
	KSRB15-3.9 :Providing 18mm thi	•	_	-					
	brick masonry including roundi	•		•		_			
	Providing and removing scaffoldi per specifications.	ng, including (cost of ma	teriais, labour,	curing c	complete as			
19	-	O'1- <i>(</i>	2040 47 (D N- 444	. 14 Al	I- 45 47 \			
	Schedule Of Rates PWD,Mys	sore Circle 2	2016-17 (Page No.116	item N	10.15.17)			
	For Inside Walls								
	Room	sqm	1	12.00		3.00	36.00		
			0				36.00		
	Deductions								
	D	sqm	-1	1.00		2.10	-2.10		
	W	sqm	-2	0.90		1.20	-2.16	400.00	0004.00
							31.74	198.00	6284.00
	KSRB15-7 : Providing lime rend	dering for plas	stering to	wall and ceiling	ıg, includ	ding cost of			
	materials, labour, curing complet	e as per speci	fications.						
20				5 11 40					
20	Schedule Of Rates PWD,My	sore Circle	2016-17 (Page No.12	4 Item N	lo.15.33)			
20	Schedule Of Rates PWD,My Ceiling	sore Circle	·	Page No.12		lo.15.33)	9.00		
20	•		Quantity	-	18	lo.15.33)	9.00 31.74		
20	Ceiling	sqm	Quantity	vide Item No.	18	lo.15.33)		25.00	1018.00
20	Ceiling Inside Walls KSRB15-3.3 : Providing 12mm t	sqm sqm hick cement p	Quantity Quantity	vide Item No. ' vide Item No. ' ingle coat with	18 19 cement	mortar 1:6,	31.74	25.00	1018.00
20	Ceiling Inside Walls KSRB15-3.3: Providing 12mm t to brick masonry including roun	sqm sqm hick cement p	Quantity Quantity of plaster in singless where	vide Item No. 1 vide Item No. 1 ingle coat with ever required	18 19 cement smooth	mortar 1:6, rendering, :	31.74	25.00	1018.00
	Ceiling Inside Walls KSRB15-3.3 : Providing 12mm t	sqm sqm hick cement p	Quantity Quantity of plaster in singless where	vide Item No. 1 vide Item No. 1 ingle coat with ever required	18 19 cement smooth	mortar 1:6, rendering, :	31.74	25.00	1018.00
21	Ceiling Inside Walls KSRB15-3.3: Providing 12mm to brick masonry including round Providing and removing scaffold	sqm sqm hick cement p nding off corr ing, including	Quantity Quantity of the state	vide Item No. 7 vide Item No. 7 ingle coat with ever required aterials, labour	cement smooth curing of	mortar 1:6, rendering, : complete as	31.74	25.00	1018.00
	Ceiling Inside Walls KSRB15-3.3: Providing 12mm to brick masonry including rour Providing and removing scaffold per specifications.	sqm sqm hick cement p nding off corr ing, including	Quantity Quantity of the state	vide Item No. 7 vide Item No. 7 ingle coat with ever required aterials, labour	cement smooth curing of	mortar 1:6, rendering, : complete as	31.74	25.00	1018.00
	Ceiling Inside Walls KSRB15-3.3: Providing 12mm to brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Out Side Walls	sqm sqm hick cement p nding off corr ing, including	Quantity Quantity of the state	vide Item No. vi	cement smooth curing of	mortar 1:6, rendering, : complete as	31.74 40.74	25.00	1018.00
	Ceiling Inside Walls KSRB15-3.3: Providing 12mm to brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Out Side Walls Qty as per item No.10	sqm sqm hick cement p nding off corr ing, including	Quantity values of the cost of ma	vide Item No. vi	cement smooth curing of	mortar 1:6, rendering, : complete as	31.74 40.74	25.00	1018.00
	Ceiling Inside Walls KSRB15-3.3 : Providing 12mm to brick masonry including rour Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Out Side Walls Qty as per item No.10 Alround	sqm sqm hick cement p nding off corr ing, including sore Circle	Quantity value of the cost of materials (1)	vide Item No. 2 vide Item No. 2 ingle coat with ever required aterials, labour 1.50 13.84	cement smooth curing of	mortar 1:6, rendering, : complete as No.15.11)	31.74 40.74 2.93 43.60	25.00	1018.00
	Ceiling Inside Walls KSRB15-3.3: Providing 12mm to brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Out Side Walls Qty as per item No.10	sqm sqm hick cement p nding off corr ing, including sore Circle	Quantity values of the cost of ma	vide Item No. vi	cement smooth curing of	mortar 1:6, rendering, : complete as	2.93 43.60 14.60	25.00	1018.00
	Ceiling Inside Walls KSRB15-3.3: Providing 12mm to brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Out Side Walls Qty as per item No.10 Alround Parapet	sqm sqm hick cement p nding off corr ing, including sore Circle	Quantity value of the cost of materials (1)	vide Item No. 2 vide Item No. 2 ingle coat with ever required aterials, labour 1.50 13.84	cement smooth curing of	mortar 1:6, rendering, : complete as No.15.11)	31.74 40.74 2.93 43.60	25.00	1018.00
	Ceiling Inside Walls KSRB15-3.3 : Providing 12mm to brick masonry including rour Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Out Side Walls Qty as per item No.10 Alround Parapet Deduction	sqm sqm hick cement p nding off corr ing, including sore Circle s sqm sqm sqm	Quantity values of the cost of materials of the cost o	vide Item No. 2 vide Item No. 2 ingle coat with ever required aterials, labour 1.50 13.84 12.92	cement smooth curing of	mortar 1:6, rendering, : complete as No.15.11) 1.95 3.15 1.13	2.93 43.60 14.60 61.13	25.00	1018.00
	Ceiling Inside Walls KSRB15-3.3: Providing 12mm to brick masonry including round Providing and removing scaffold per specifications. Schedule Of Rates PWD,My Out Side Walls Qty as per item No.10 Alround Parapet	sqm sqm hick cement p nding off corr ing, including sore Circle	Quantity value of the cost of materials (1)	vide Item No. 2 vide Item No. 2 ingle coat with ever required aterials, labour 1.50 13.84	cement smooth curing of	mortar 1:6, rendering, : complete as No.15.11)	2.93 43.60 14.60	25.00	1018.00

KSRB 14.9-2 : Providing and laying M-15 cement concrete flooring 60 mm thick with metallic concrete hardner topping, under layer of 45mm thick M-15 cement concrete using broken granite metal of 20mm and down size and top layer of 15mm thick metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with metalic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement = 1 part of metallic floor hardening compound of approved quality by wt) , including finishing, cost of materials, labour, curing, complete as per specifications. Specification No. KBS 14.4

l. o.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
Sc	hedule Of Rates PWD,Myso	re Circle 2	016-17 (1	Page No.10	1 Item No	.14.14)			
Roo	om	sqm	1	3.00	3.000		9.00		
		·					9.00	673.00	6057.0

KSRB 10-3: Providing and laying integral cement based water proofing treatment including preparation of surfaces as required application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications.

23

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.67 Item No.10.2)

Sqm	1	3.00	3.00	9.00		
				9.00	904.00	8136.00

KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.

24

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.119 Item No.15.49.1)

Ceiling	sqm	Quantity vide item NO.18	9.00		
Inside Plastering	sqm	Quantity vide item NO.19	31.74		
· ·			40.74	71.00	2892.00

KSRB 15-16.1: Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.

25

Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.120 Item No.15.53.1

)							
Quantity vide item NO.10	Sqm	1.95	X	1.50	2.93		
Quantity vide item NO.21	Sqm				56.87		
·					59.80	69.00	4125.00

			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			
Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1:3, 20mm deep, after raking joint materials, labour, curing complete as	s to depth per specifi	of 20mm cations.	n nicely lini	ing, inclu	ding cost of			
	Sqm	1	13.84		1.350	18.68		
						18.68	98.00	1830.00
75mm dia including filling the joints necessary specials like shoes, bends	with spun and offse	yarn soak ts fixed wit	ed in neat o h iron clam	cement sl ps, wall p	urry 1:2 with lugs, screws,			
Schedule Of Rates PWD,Mysore	e Circle 2	016-17 (Page No.5	0 Item N	lo.8.14)			105.0
	Rmt	1	3.50			3.50 3.50	409.00	1431.00
wood surface and / or wood based cleaning the surface of all dirt, dus	d surface t and forei	with enam gn matter	el paint to	give an	even shade,			
Schedule Of Rates PWD,Mysor	e Circle 2	016-17 (Page No.1	21 Item	No.15.60.1			
D	Sqm	2.25	1	1.00	2.10	4.73 4.73	84.00	397.00
Providing Electrical services.			A	t 5%	of civil work	S		12565.00
Miscellaneous such as fixtures to do	ors & winde	ows etc						143.00
			ಇಂಜಿನಿಯ	e de		Total =		264000.00
	KSRB 15.1.3 -do- Providing ruled p 1:3, 20mm deep, after raking joint materials, labour, curing complete as Schedule Of Rates PWD, Mysore KSRB 8.6-3: Providing and fixing or 75mm dia including filling the joints necessary specials like shoes, bends including cost of materials, labour, c KBS 8.27, 8.28 Schedule Of Rates PWD, Mysore KSRB 15-17.6: Providing and applyi wood surface and / or wood base cleaning the surface of all dirt, dus materials, labour, complete as per sp Schedule Of Rates PWD, Mysore) D Providing Electrical services. Miscellaneous such as fixtures to do	KSRB 15.1.3 -do- Providing ruled pointing to of 1:3, 20mm deep, after raking joints to depth materials, labour, curing complete as per specific schedule Of Rates PWD, Mysore Circle 2 Sqm KSRB 8.6-3: Providing and fixing on wall surface 75mm dia including filling the joints with spunnecessary specials like shoes, bends and offsee including cost of materials, labour, curing completes 8.27, 8.28 Schedule Of Rates PWD, Mysore Circle 2 Rmt KSRB 15-17.6: Providing and applying painting wood surface and / or wood based surface cleaning the surface of all dirt, dust and foreing materials, labour, complete as per specifications. Schedule Of Rates PWD, Mysore Circle 2) D Sqm Providing Electrical services. Miscellaneous such as fixtures to doors & windows.	KSRB 15.1.3 -do- Providing ruled pointing to coursed sto 1:3, 20mm deep, after raking joints to depth of 20mm materials, labour, curing complete as per specifications. Schedule Of Rates PWD,Mysore Circle 2016-17 (If Sqm 1 KSRB 8.6-3 : Providing and fixing on wall surface asbest 75mm dia including filling the joints with spun yarn soak necessary specials like shoes, bends and offsets fixed wit including cost of materials, labour, curing complete as per KBS 8.27, 8.28 Schedule Of Rates PWD,Mysore Circle 2016-17 (If Rmt 1 KSRB 15-17.6 : Providing and applying painting two coats wood surface and / or wood based surface with ename cleaning the surface of all dirt, dust and foreign matter materials, labour, complete as per specifications. Schedule Of Rates PWD,Mysore Circle 2016-17 (If	KSRB 15.1.3 -do- Providing ruled pointing to coursed stone mason 1:3, 20mm deep, after raking joints to depth of 20mm nicely linimaterials, labour, curing complete as per specifications. Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.1 Sqm 1 13.84 KSRB 8.6-3: Providing and fixing on wall surface asbestos cement 75mm dia including filling the joints with spun yarn soaked in neat a necessary specials like shoes, bends and offsets fixed with iron clamincluding cost of materials, labour, curing complete as per specifications KBS 8.27, 8.28 Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.5 Rmt 1 3.50 KSRB 15-17.6: Providing and applying painting two coats (excluding wood surface and / or wood based surface with enamel paint to cleaning the surface of all dirt, dust and foreign matter, sand page materials, labour, complete as per specifications. Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.1) D Sqm 2.25 1 Providing Electrical services. A	KSRB 15.1.3 -do- Providing ruled pointing to coursed stone masonry with ce 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, inclumaterials, labour, curing complete as per specifications. Schedule Of Rates PWD,Mysore Circle 2016-17 (Page No.115 Item Sqm 1 13.84 KSRB 8.6-3: Providing and fixing on wall surface asbestos cement rain down 75mm dia including filling the joints with spun yarn soaked in neat cement stonecessary specials like shoes, bends and offsets fixed with iron clamps, wall princluding cost of materials, labour, curing complete as per specifications. Speck BS 8.27, 8.28 Schedule Of Rates PWD,Mysore Circle 2016-17 (Page No.50 Item No.50 I	KSRB 15.1.3 -do- Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Schedule Of Rates PWD,Mysore Circle 2016-17 (Page No.115 Item No.15.3) Sqm 1 13.84 1.350 KSRB 8.6-3: Providing and fixing on wall surface asbestos cement rain down water pipes 75mm dia including filling the joints with spun yarn soaked in neat cement slurry 1:2 with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications. Specification No. KBS 8.27, 8.28 Schedule Of Rates PWD,Mysore Circle 2016-17 (Page No.50 Item No.8.14) Rmt 1 3.50 KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. Schedule Of Rates PWD,Mysore Circle 2016-17 (Page No.121 Item No.15.60.1) D Sqm 2.25 1 1.00 2.10 Providing Electrical services. At 5% of civil works.	KSRB 15.1.3 -do- Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Schedule Of Rates PWD,Mysore Circle 2016-17 (Page No.115 Item No.15.3) Sqm 1 13.84 1.350 18.68 18.68 KSRB 8.6-3 : Providing and fixing on wall surface asbestos cement rain down water pipes 75mm dia including filling the joints with spun yarn soaked in neat cement slurry 1:2 with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications. Specification No. KBS 8.27, 8.28 Schedule Of Rates PWD,Mysore Circle 2016-17 (Page No.50 Item No.8.14) Rmt 1 3.50 3.50 3.50 KSRB 15-17.6 : Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. Schedule Of Rates PWD,Mysore Circle 2016-17 (Page No.121 Item No.15.60.1) D Sqm 2.25 1 1.00 2.10 4.73 4.73 Providing Electrical services. At 5% of civil works Miscellaneous such as fixtures to doors & windows etc.,	KSRB 15.1.3 -do- Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Schedule Of Rates PWD,Mysore Circle 2016-17 (Page No.115 Item No.15.3) Sqm 1 13.84 1.350 18.68 18.68 98.00 KSRB 8.6-3 : Providing and fixing on wall surface asbestos cement rain down water pipes 75mm dia including filling the joints with spun yarn soaked in neat cement sturry 1:2 with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications. Specification No. KBS 8.27, 8.28 Schedule Of Rates PWD,Mysore Circle 2016-17 (Page No.50 Item No.8.14) Rmt 1 3.50 3.50 3.50 3.50 409.00 KSRB 15-17.6 : Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. Schedule Of Rates PWD,Mysore Circle 2016-17 (Page No.121 Item No.15.60.1) D Sqm 2.25 1 1.00 2.10 4.73 4.73 84.00 Providing Electrical services. At 5% of civil works Miscellaneous such as fixtures to doors & windows etc.,

15. Pumping Machinery PW sump to back wash tank

61				Rate /	Amount
Sl. No.	Description	Unit	Qty	unit	(Rs)
1	Supplying at site of work erection and commission of				
	Submerged Centrifugal Pump set Jyothi / Kirloskar / Flow				
	more / Mather & platt / Aqua /Worthington or any other make confirming to IS standard of pull out type with Pump and Motor				
	Mounted on the single shaft, fitted with Mechanical seal (Double				
	mechanical seal should be fitted GLB Circle 2011-12 P.No.50			_	
	I.No.1.5				
	Head= 27.43 M Discharge=0.694 lps				
	Discharge-0.094 tps	No	2	17500.00	35000.00
2	Pressure guage: Supply and delivery of brand new best make				
	pressure guage (bourdon type of size 100 mm Confirming to IS				
1	3624/1987 with latest amendments with SI mark etc. complete				
	(PRED issue rate GLB Circle 2012-13 P.No.50 I.No.2.1(b)	Nos	2	610.00	1220.00
	100 mm	1100		015.55	
3	Gate valve: Supplying and delivery of brand new best-make				
	confirming to IS 778/1984 with latest amendment with ISI				
	mark (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.4.3)	,,		1410.00	0026 00
	80mm	Nos	2	1418.00	2836.00
4	Non return valve: Supplying and delivery of brand new best-	:			
	make confirming to IS 778/1984 with latest amendment with IS				
	mark (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.5.3)				
	80mm	Nos	2	1450.00	2900.00
5	Supply and delivery of brand new best make LT cable as per IS				
	694/1990 with latest amendment with ISI (PRED issue rate	1			
	GLB Circle 2012-13 P.No.50 I.No.7)	Rmt	20	252.00	5040.00
	4 x 25 Sq.mm	Kiiit	20	202.00	0010.00
6	Meter & Panel Board				
	(Indoor Type)				
	(a) Meter Board unit: One number M.S. Box of size				
	350x380x150mm fabricated out of 2mm thick sheet metal with	1			
i	sealable door and arrangement for mounting CT's (if any) to	1			
	connect 3 Ph/4 wire energy meter cable box etc., complete. A transparent glass piece should be provided for the protection				
	where the energy meter reading could be read out.				
	(b) Panel Board Unit :One number Cubical type of control pane	1			
	board of size 350x380x150mm fabricated out of 2mm thick				
	sheet metal to operate on 3ph/4 wire 50Hz/400/440 volts AC				
1	supply.				

S1.	Description	Unit	Qty	Rate / unit	Amount (Rs)
110.	a) One number brand new best make flush type motor control				(2-0-2)
	switch as per IS 6875 with latest amendments.up to 10 HP -16				İ
	Amps				
	b) One number of brand new best make single phase preventer as per IS 3231 with latest amendements.				
1	c) One number of brand new best make voltmeter of range				
	0.600/Volts as per IS 1248 with latest amendments. d) One number of brand new best make Ammeter as per IS				
	1248 as per latest amendments 6HP to 10HP (0 to 30 Amps) e) Indicator lamps for visual indication of electrical power as per				
:	IS 9224/1979 with latest amendments. f) One number of 16 Amps. DP switch of brand new best make			:	
	as per IS 9224/1979 with latest amendments. g) Earthing: The box shall be provided with plated bolt and				
	nuts. h) Rewireable fuse units : Upto 6 HP -				
	16 Amps				
1	i) Danger Board: Danger board confirming to KPTCL Standard				
	should be provided on the panel. These two units (A&B) complete shall be mounted on extra sheet				
	metal of 1.6 mm thick and screwed on the box with specific				
	above with proper space in between. This complete unit shall be				
ŀ	mounted on the MS angle of size 50x50x6mm fabricated				
	pedastal and appoxy painted with rust resitant primer and two				
	coats of ash grey/ olive green paints. these two units specified	8			
	above with a propoer space in between the box shall be provided				
	with cable entry and exist holes at the bottom punched and				
	rubber bushed retained in position so that they could be used				
	as an when required. complete pannel woring should be done				
	with cable as per IS 694/1990 with its latest amendments				}
	complet unit comprising of all above items (A to I) with one no				
	brand new push button operated starter as per IS 5124 and its				
	latest amendments with produtive relay (PRED issue rate GLB			l i	
	Circle 2012-13 P.No.53I.No.7.1) - upto 7.50 HP	set	2	7910.00	15820.00
7	Power Capacitor: Supply and delivery of best indigeneous				
	brand new power capacitor as per IS 2834/1986 with its latest				
	amendments with ISI mark of required capacity tested and				
	approved by KPTCL authorities including errection,				
	electrification and commissioning of the same and the location				
	of respective pump sets. (PRED issue rate GLB Circle 2012-13	1			
	P.No.53 I.No.8)	KVAR	4	375.00	1500.00

Sl. No.	Description	Unit	Qty	Rate / unit	Amount (Rs)
	Supply and delivery of best indigeneous brand new MCB (Miniature Circuit Brakers) of required capacity as per IS 8828/1978 and its latest amendments with ISI mark of 40AMPS with sealable box etc. complete (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.9)	No	Per 3 poles	850.00	850.00
	Supply and delivery of GI pipes of Heavy Duty 'C' class conforming to ISI 1239 - Part I - 1990 with latest amendments with ISI mark (one end fitted with heavy duty collar and other end fitted with protective cover) (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.10(i) 50mm dia	Rmt	50	519.00	25950.00
10	Erection of Pumpset with all necessary erection materials to the cement concrete foundation pedastal and with labour including bolts nuts valves gauge etc. involved in the job (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.11)	Job	2	4500.00	9000.00
11	Erection of panel board and meter board units with all necessary materials and labour including providing cement-concrete foundations bed etc., complete (Indoor Type) (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.12(i)		1	850.00	850.00
12	Main connections: Supplying & fixing brand new PVC insulated cable sheathed steel wire to steel tape armoured U.G. cable with PVC outer sheathing 1.1 KV confirming to IS 1554/1988 with amendments with ISI mark from KPTCL pole to			*	
	meter board unit etc., complete (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.13.3) Size 3.5 x 16sqmtr	Rmtr	50	225.90	11295.00
	a) In New Trench: The work shall include Digging of trench of 0.5m width 0.5m depth, laying the cable in trench refilling and consolidating the soil (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.13 (i) b) In GI Pipe: Above ground in 2.9mm thick 50mm dia light	Rmtr	20.0	75.00	1500.00
	class GI pipes with necessary clamps bolts, nuts washers etc., for fixing the pipe on the pole and connecting the U.G. cable upto meter boards.(PRED issue rate GLB Circle 2012-13P.No.53 I.No.13 b)		10.0	35.00	350.00
13	Pot head: Supplying and fixing LT Cast iron pot heads sutaible for 1.1 KV class UG cables field with necessary bitumin /insulating etc. sutaible (PRED issue rate GLB Circle 2012-13 P.No.54 I.No.14.3)		:		
	3 1/2x25	Each	1.0	550.00	550.00

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Sl. No.	Description	Unit	Qty	Rate / unit	Amount (Rs)
14	Earthing: Supplying and fixing and wiring earth electrode for				
	grounding circuits IC cutouts and other equipments on the				
	meter board in the pit. The pit should be filled up with equal				
	proportion of salt and charcoal 150mm all around the pipe to				
	complete depth. The connection from the pipe to the conduits				
	etc., is to be established through GI wire of sizes as per clause				
	7.3.3 of IS 732 using 12mm bolts, nuts washers and check nuts				
	etc., the pipe shall have 16 through holes of 12mm dia. (PRED				
	issue rate GLB Circle 2012-13 P.No.54 I.No.15)	No	2	2000.00	4000.00
	Total				118661.00
	Say				118700.00

Assistant Executive Engineer
PRE sub Division Srirangapatna

Executive Engineer PRE sub Division Mandya

SUB ESTIMATE: RISING MAIN FROM PW SUMP TO BACK WASH TANK

	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Earth work excavation for founds specification including setting out, lighting, bracing, removal of stumps bottom, backfilling the excavation exearth locally of the work etc, complete								
	Schedule Of Rates PRE,Mysore	Circle 2012	2-13 (Pa	ıge No.2 Itei	n No.1.3))			
		cum	1	100.00	0.54	1.14	61.56 61.56		
i	In Ordinary soil Considering 70 % of qty	cum	61	.56	x	70%	43.09	30.00	1293.0
iii	In Ordinary rock without blasting Considering 30 % of qty	cum	64	.56	X	30%	18.47	40.00	739.0
2	Supplying HDPE pipes conforming to including loading and unloading at be and jointing of pipes and specials (with all lead and lift including encargravel or selected earth available exclusive of required specials and fill	oth destination excluding cost sing the pipe from the ex	n and roll t of speci alround ccavation er necess	ing, lowering i als) giving hyd to a depth of , testing and	nto trenche draulic test not less th	es, laying t as per rel an 15cms	rue to line levant ISS s with soft		
	bends, reducers etc., complete (Cotesting)	ontractor will	make hi	-	e Tee, Stub	ends, fla	nged sets,		
	testing)	ontractor will	make hi	-	e Tee, Stub	ends, fla	nged sets,		
		ontractor will Rmt	make hi	-	e Tee, Stub	ends, fla	nged sets,	319.20	31920.00
	HDPE, PE100, PN10 90 mm dia supply and fixing of single chambe housed in the single chamber) Air v GGG 50. all internal parts such as	Rmt r triple function alves with bo float, shell et	1 on tampe dy and c c all cove	100.00 Tr proof (both over in ductile er bolts of aus	the orifice cast iron o	ends, flai procuring s to be of grade SS 304	nged sets, water for	319.20	31920.0
	testing) HDPE, PE100, PN10 90 mm dia supply and fixing of single chambe housed in the single chamber) Air v	Rmt r triple functional stress with bour float, shell et all /SSRAL500str volumes on Volumes	1 on tampe dy and co c all cove 5. The va start up.	100.00 or proof (both over in ductile er bolts of austiles Should to	the orifice cast iron o	ends, flai procuring s to be of grade SS 304	nged sets, water for	319.20	31920.00
3 3 3	HDPE, PE100, PN10 90 mm dia supply and fixing of single chamber housed in the single chamber) Air v GGG 50. all internal parts such as steel, DN 50 float of HOSTAFLON the three functions i.e: 1.Large orifice for venting of large air 2.Large orfice for Intake of large air	Rmt r triple function alves with bo float, shell et l /SSRAL5000 r volumes on Volumes surized air du	1 on tampe dy and co c all cove 5. The va start up. uring ope	100.00 or proof (both over in ductile er bolts of audives Should I	the orifice cast iron o	ends, fla procuring s to be of grade SS 304 d for all	nged sets, water for	319.20	31920.00

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SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
4	Construction of Thrust block								
	(Sub estimate enclosed)	Nos	1					6000.00	6000.00
5	Construction of Valve Chamber								
	(Sub estimate enclosed)	Nos	2					24000.00	48000.00
6	curing complete as per specification Specification No.1000 / 2300 (300mm Schedule Of Rates PWD,Mysore	n. dia)							
) 300 mm dia	Rmtr					5.00	1583.00	7915.00
7	Miscellaneous and rounding charges	;							428.00
				/				Total	165000.00

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17. SUB ESTIMATE : PUMPING MACHINARY WW SUMP TO AERATOR

S1.	Description	Unit	Qty	Rate /	Amount
No.		Unit	Qty	unit	(Rs)
1	Supplying at site of work erection and commission of Submerged Centrifugal Pump set Jyothi / Kirloskar / Flow				
	more / Mather & platt / Aqua /Worthington or any other make				
	confirming to IS standard of pull out type with Pump and Motor				
	Mounted on the single shaft, fitted with Mechanical seal (: 			
	Double mechanical seal should be fitted GLB Circle 2011-12				
	P.No.50 I.No.1.4 Head= 20.36 M				
	Discharge=1.736 lps				
		No	2	17500.00	35000.00
2	Pressure guage: Supply and delivery of brand new best make				
	pressure guage (bourdon type of size 100 mm Confirming to IS				
	3624/1987 with latest amendments with SI mark etc. complete				
	(PRED issue rate GLB Circle 2012-13 P.No.50 I.No.2.1(b)				
	100 mm	Nos	2	610.00	1220.00
3	Gate valve: Supplying and delivery of brand new best-make			3 0	
	confirming to IS 778/1984 with latest amendment with ISI				
	mark (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.4.3)				2225 22
	80mm	Nos	2	1418.00	2836.00
4	Non return valve: Supplying and delivery of brand new best-				
	make confirming to IS 778/1984 with latest amendment with IS				
	mark (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.5.3)				
	80mm	Nos	2	1450.00	2900.00
5	Supply and delivery of brand new best make LT cable as per IS				
	694/1990 with latest amendment with ISI (PRED issue rate				
	GLB Circle 2012-13 P.No.50 I.No.7) 4 x 25 Sq.mm	Rmt	20	252.00	5040.00
6	Meter & Panel Board				
	(Indoor Type)				
	(a) Meter Board unit: One number M.S. Box of size	l .			
	350x380x150mm fabricated out of 2mm thick sheet metal with sealable door and arrangement for mounting CT's (if any) to	1			
	connect 3 Ph/4 wire energy meter cable box etc., complete. A				
	transparent glass piece should be provided for the protection			,	
	where the energy meter reading could be read out.				
	(b) Panel Board Unit :One number Cubical type of control panel	1			
	board of size 350x380x150mm fabricated out of 2mm thick sheet metal to operate on 3ph/4 wire 50Hz/400/440 volts AC	1			
	supply.				
	landhii.	Ц	1	<u> </u>	

S1. No.	Description	Unit	Qty	Rate / unit	Amount (Rs)
	a) One number brand new best make flush type motor control				· · · · ·
	switch as per IS 6875 with latest amendments.up to 10 HP -16				
	Amps				
	 b) One number of brand new best make single phase preventer as per IS 3231 with latest amendements. c) One number of brand new best make voltmeter of range 				
	0.600/Volts as per IS 1248 with latest amendments. d) One number of brand new best make Ammeter as per IS				
	1248 as per latest amendments 6HP to 10HP (0 to 30 Amps) e) Indicator lamps for visual indication of electrical power as per				
	IS 9224/1979 with latest amendments. f) One number of 16 Amps. DP switch of brand new best make				
	as per IS 9224/1979 with latest amendments. g) Earthing: The box shall be provided with plated bolt and				
	nuts. h) Rewireable fuse units : Upto 6 HP -				
	16 Amps i) Danger Board : Danger board confirming to KPTCL Standard			!	
	should be provided on the panel. These two units (A&B) complete shall be mounted on extra sheet	i			
	metal of 1.6 mm thick and screwed on the box with specific				
	above with proper space in between. This complete unit shall be				
	mounted on the MS angle of size 50x50x6mm fabricated				
	pedastal and appoxy painted with rust resitant primer and two				
	coats of ash grey/ olive green paints. these two units specified				
	above with a propoer space in between the box shall be provided			01	
	with cable entry and exist holes at the bottom punched and				
	rubber bushed retained in position so that they could be used				
	as an when required, complete pannel woring should be done				
	with cable as per IS 694/1990 with its latest amendments				
	complet unit comprising of all above items (A to I) with one no	}			
	brand new push button operated starter as per IS 5124 and its				
	latest amendments with produtive relay (PRED issue rate GLB			*	
	Circle 2012-13 P.No.53I.No.7.1) - upto 7.50 HP	set	2	7910.00	15820.0
7	Power Capacitor: Supply and delivery of best indigeneous				
	brand new power capacitor as per IS 2834/1986 with its latest				
	amendments with ISI mark of required capacity tested and				
	approved by KPTCL authorities including errection,				
	electrification and commissioning of the same and the location				
	of respective pump sets. (PRED issue rate GLB Circle 2012-13	I			
	P.No.53 I.No.8)	KVAR	4	375.00	1500.0

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120	Sl. No.	Description	Unit	Qty	Rate / unit	Amount (Rs)
	8	Supply and delivery of best indigeneous brand new MCB (Miniature Circuit Brakers) of required capacity as per IS 8828/1978 and its latest amendments with ISI mark of 40AMPS with sealable box etc. complete (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.9)		Per 3 poles	850.00	850.00
	9	Supply and delivery of GI pipes of Heavy Duty 'C' class conforming to ISI 1239 - Part I - 1990 with latest amendments with ISI mark (one end fitted with heavy duty collar and other end fitted with protective cover) (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.10(i)				
	10	50mm dia Erection of Pumpset with all necessary erection materials to the cement concrete foundation pedastal and with labour including		50	519.00	25950.00
		bolts nuts valves gauge etc. involved in the job (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.11)	Job	2	4500.00	9000.00
	11	Erection of panel board and meter board units with all necessary materials and labour including providing cement-concrete foundations bed etc., complete (Indoor Type) (PRED				
	12	issue rate GLB Circle 2012-13 P.No.53 I.No.12(i) Main connections: Supplying & fixing brand new PVC insulated cable sheathed steel wire to steel tape armoured U.G. cable with PVC outer sheathing 1.1 KV confirming to IS 1554/1988 with amendments with ISI mark from KPTCL pole to		1	850.00	850.00
•		meter board unit etc., complete (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.13.3) Size 3.5 x 16sqmtr a) In New Trench: The work shall include Digging of trench of	Rmtr	50	225.90	11295.00
		0.5m width 0.5m depth, laying the cable in trench refilling and consolidating the soil (PRED issue rate GLB Circle 2012-13 P.No.53 I.No.13 (i) b) In GI Pipe: Above ground in 2.9mm thick 50mm dia light class GI pipes with necessary clamps bolts, nuts washers etc.,	Rmtr	20.0	75.00	1500.00
300 4 300		for fixing the pipe on the pole and connecting the U.G. cable upto meter boards.(PRED issue rate GLB Circle 2012-13P.No.53 I.No.13 b)		10.0	35.00	350.00
*	13	for 1.1 KV class UG cables field with necessary bitumin /insulating etc. sutaible (PRED issue rate GLB Circle 2012-13				
		P.No.54 I.No.14.3) 3 1/2x25	Each	1.0	550.00	550.00

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Sl. No.	Description	Unit	Qty	Rate / unit	Amount (Rs)
14	Earthing: Supplying and fixing and wiring earth electrode for				
	grounding circuits IC cutouts and other equipments on the				
	meter board in the pit. The pit should be filled up with equal				
	proportion of salt and charcoal 150mm all around the pipe to				
	complete depth. The connection from the pipe to the conduits				
	etc., is to be established through GI wire of sizes as per clause				
	7.3.3 of IS 732 using 12mm bolts, nuts washers and check nuts			7	
	etc., the pipe shall have 16 through holes of 12mm dia. (PRED				
	issue rate GLB Circle 2012-13 P.No.54 I.No.15)	No	2	2000.00	4000.00
	Total				118661.00
	Say				118700.00

Assistant Executive Engineer
PRE sub Division Srirangapatna

Executive Engineer PRE sub Division Mandya

SUB ESTIMATE: RISING MAIN FROM WW SUMP TO AERATOR

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Earth work excavation for foundar specification including setting out, lighting, bracing, removal of stumps a bottom, backfilling the excavation ea earth locally of the work etc, complete	construction and other or th to the e	n of shor deleterious xtent requ	ing,strut s matter, uired and	ing barricadir dressing of s	ng,danger sides and			
	Schedule Of Rates PRE,Mysore	Circle 20	12-13 (P	age No	.2 Item No.1	.3)			
		cum	1	100	.00 0.54	1.14	61.56 61.56		
i	In Ordinary soil Considering 70 % of qty	cum	61	.56	x	70%	43.09	30.00	1293.00
iii	In Ordinary rock without blasting Considering 30 % of qty	cum	6′	1.56	x	30%	18.47	40.00	739.00
2	Supplying HDPE pipes conforming to site including loading and unloading to line and jointing of pipes and sprelevant ISS with all lead and lift incluwith soft gravel or selected earth avis exclusive of required specials and sets, bends, reducers etc., complete testing)	at both des pecials (exc uding encas ailable from I fittings wh	stination a cluding co sing the pi the exca erever ne	nd rolling ost of sp pe alroud vation, t cessary	g, lowering into ecials) giving nd to a depth o esting and co like saddle Te	o trenches, hydraulic te of not less the mmissioning ee, Stub end	laying true est as per nan 15cms r. The rate ls, flanged	a Te	
	HDPE, PE100, PN10 90 mm dia	Rmt	1	100	.00		100.00	319.20	31920.0
	supply and fixing of single chamber housed in the single chamber) Air va GGG 50. all internal parts such as f steel, DN 50 float of HOSTAFLON	alves with be loat, shell e	ody and c tc all cov	over in c	uctile cast iron of austitic allo	n of grade y/ SS 304			
3	the three functions i.e: 1.Large orifice for venting of large air 2.Large orfice for Intake of large air 3.Small orifice for Discharge of press	Volumes	-		N10				
	Schedule Of Rates KUWS & DE	Karnata	ka Board						
	item No.II.2.10.7)	, italilata	ka Doart	1 2018-2	:019 (Page I	No.19			

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
4	Construction of Thrust block								
	(Sub estimate enclosed)	Nos	1					6000.00	6000.00
5	Construction of Valve Chamber								
	(Sub estimate enclosed)	Nos	2					24000.00	48000.00
6	Providing and laying reinforced cemer ends, and fixing collars with cement curing complete as per specification Specification No.1000 / 2300 (300mm.	mortar 1 s. Speci	:2 includi	ng cost of a	all materials	, labour,			
	Schedule Of Rates PWD, Mysore	Circle 20	016-17 (Page No.20	63 Item No	.34.6.1			
	300 mm dia	Rmtr					5.00	1583.00	7915.00
7	Miscellaneous and rounding charges								428.00
			0					Total	165000.00

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SUB ESTIMATE: PROVIDING FENCING TO WTP AND ROAD, DRAINS INSIDE WTP

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Earth work excavation for foundatio exceeding 50 mtrs and with a lift up danger lighting etc., complete By Ma	oto 1.50 mt	rs. Includ						
	Schedule Of Rates PRE,Mysore	Circle 20	12-13 (Page No.1	Item No.1	.1)			
	a) In Hard Soil								
	For Fencing	Cum	1	350.00	0.60	0.55	115.500		
	for Gate Column	Cum	4	0.90	0.90	1.00	3.240 118.740	171.00	20305.00
2	Providing and laying granite or trap of size jelly for foundation laid in 15 cm mixing, curing etc. complete as per	thick layer	s and we	ell compacted	l including				
	Schedule Of Rates PRE, Mysore	e Circle 20	12-13 (Page No.6	Item No.2	.2)			
	For Fencing	Cum	1	350.00	0.60	0.10	21.000		
	for Gate Column	Cum	4	0.90	0.90	0.10	0.324 21.324	3984.00	84955.00
3	KSRB 4-6.1 : Providing and remove removal of form work for foundational including cost of all materials, labour 4.6.2	ions, footing	gs, base	es of column	s for mas	s concrete			
	Schedule Of Rates PWD, Mysor	e Circle 20	016-17 ((Page No.1	5 Item No	.4.28)			
		0 Sqm	4	3.00		0.45	5.40	231.00	1247.00
4	KSRB 4.2.2 : Providing and laying in with OPC cement @ 320kgs, with	20mm and	d down	size graded	granite m	etal coarse			
	aggregates @0.878cum and fline confirming to IS9103-1999 Reaffirm exceeding 15 cms thick, vibrated for roof slabs, staircase, lintels, retaining attached plasters, columns, piers, lacing courses, parapets, coping, be including cost of all materials, la specifications. Specification No. KBS	ned-2008, not all works in all works in gwalls, released blucks, a bour, HOM	nachline i foundat turn wall pillars, inchor bl	mixed, conc tion plinth and s, walls (and posts, struts locks, plain w	rete laid in d ground flo y thickness , buttresse vindow cills	layers not por level for) including s, string or fillets etc.,			
	Schedule Of Rates PWD, Mysor	e Circle 2	016-17	(Page No.1	3				
	Item No.4.11) for Gate Column	Cum	4	0.75	0.75	0.45	1.01	6011.00	6071.00

Schedule Of Rates PRE, Mysore Circle 2012-13 (Page No.7 Item No.2.7)

Coping 350.00 0.075 Cum 0.45 11.813 4676.00 55238.00

Providing and fabricating TMT reinforcement including, straightening cutting, bending, hooking, lapping and / or welding wherever required, placing in position and tying with binding wire of approved quality and guage including cost of binding wire and anchoring to the adjoining members wherever necessary including all laps and wastages ect., complete as per design specification and directions (laps and wastages not to be measured and paid)

Schedule Of Rates PRE, Mysore Circle 2012-13 (Page No. VIII Item No. 79 & 2.11)

Raft & Column 0.44 120.00 Kg 52.80 MT

0.05 56697.50 2994.00

)W	and S Division			Mah	adevpura	,Chikkankar	nahalli,K.sh	ettyhalli and o	other 16 villag
SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
	CHAIN LINK FENCING								
10	Supplying and fixing M.S. Rectangu welded together and fixed in CC (1:2 length 25 cms. Including cost of necessary, nicely finishing the welder Englineer - in- charge of the work are over one coat of shop painting (exclusive supplying the coat of shop painting (exclusive supplying su	:4) WITH 2 all material d joints with d including	NOS 16m als cutting all lead lit providing	nm dia M.S. g, bending fts and as p 2 coats of	hold fast ro scaffolding er the direct approved of	ods each of wherever ctions of the			
	Schedule Of Rates PWD, Mysor	e Circle 2	016-17 (Page No.2	72 Item N	lo.37.2)			
		Rmt	172	2.15			369.80	819.00	302866.00
11	Providing chain link fencing 50mm s poles and fixed with suitable bolts a block pipe at top and bottom as requand as per the directions of the Engliquality paint over one coat of shop page 1.	& nuts, the ired includineer-in-cha	free ends	shall be wall material	elded to th s, labour, le	e pole and ead and lifts			
	Schedule Of Rates PWD,Mysor	e Circle 2	016-17 (Page No.2	72 Item N	lo.37.3)			
		Sqm	172	1.95		1.50	503.10	659.00	331543.00
12	Providing and fixing M.S. Block pipe the bends, cutting the pipe, and rectangular poles) and spot welding materials wastage in cutting, and so directed by the Englineer-in-charge quality paint over one coat of shop p	fixing pipe the chain l caffolding v of work etc	in betwe link with M wherever r	een the two I.S. block pi necessary v	verticle pe includin vith all lead	poles (M.S. g cost of all and lift as			
	Schedule Of Rates PWD,Mysor	e Circle 2	016-17 (Page No.2	?72 Item N	lo.37.4)			
			172 x 2						
	Bottom & Top	Rmt	344	2.00			688.00	324.00	222912.00
13	Providing and fixing M.S. Gate as guage M.S. hollow pipe frame work	•		_	-				
	35mm x 6mm and 16 x 16mm Squa two halves and 40mmx6mm M.S. fla are provided at alternate vertical mesteel surface should be thoroughly of (shop paint) etc., complete. The work items of work, hire charges for we charges, with lead and lift, load specification.	re rods for ats for horiz embers ass eleaned free ork includes elding, cutt	verticals a ontal mem shown in t e of rust ar s cost of a ing and g	alternatively aber and at the the drawing and painted valued in all materials, rinding equ	spaced at he top cas etc., comp vith anti con labour cha ipment, an	4cms c/c in t iron spikes elete. All the rosive paint arges for all d electricity			
	Schedule Of Rates PWD,Mysor	e Circle 2	2016-17 (Page No.4	I2 Item No	o.7.37)			
	•	Sqm	2	3.00		1.5	9.00	2934.00	26406.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
14	Providing Locking arrangements.								
	Schedule Of Rates PWD, Mysore	e Circle 2	016-17 (Page No.	XIV Item N	o.0220)			
		Each	2				2.00	650.00	1300.00
15	5 Road & Drain Inside WTP (As Per S	Sub Estima	ate Enclo	sed)					2197000.00
	Miscellaneous and rounding charges								158.00
							TOTAL		3421000.00

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SUB ESTIMATE: ROAD AND DRAINS INSIDE WTP

No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	KSRRB M300-11.Excavation of for including cutting and pushing the eand side slopes, in accordance we complete as per specifications. MOR	earth to site ith requirem	of embar ents of li	nkment includi nes, grades a	ng trimming	g bottom	•		
	Schedule Of Rates PWD,Myson	e Circle 20)16-17 (Page No.143	Item No.1	19.11)			
		Cum	1	350.00	5.00	0.20	350.00	68.00	23800.00
2	KSRRB M300-53. Construction of from roadway cutting and excavation and compacted to meet requirement includes watering charges & comparison.	n from drair t of Table 3	and four	ndation of other	er structure pecification	s graded ns.(which			
	Schedule Of Rates PWD,Myso	ore Circle 2	:016-17 (Page No.14	3 Item No	.19.61)			
		Cum	1	350.00	5.00	0.30	525.00 525.00	66.00	34650.00
3	KSRRB M300- Construction of Eml 53. Construction of embankment vieads, transporting to site, spreadir requirement Table 300- 2 complete murrum, watering charges & compared to the compared to	vith approve ng, grading e as per spo	d materia to require ecification	l Gravel/Murro ed slope and o s.(which include	im with all compacting des cost of	lifts and to meet gravel /			
3	53. Construction of embankment v leads, transporting to site, spreadir requirement Table 300- 2 complete	vith approve ng, grading e as per spo ction by vibr	d materia to require ecification atory rolle	ll Gravel/Murro ed slope and o s.(which inclu r) MORTH Spo	om with all compacting des cost of ecification N	lifts and to meet f gravel / No. 305			
3	53. Construction of embankment vileads, transporting to site, spreadiling requirement Table 300- 2 complete murrum, watering charges & comparts of the compart	with approve ng, grading e as per spo ction by vibro re Circle 20	d materia to require ecification atory rolle	ol Gravel/Murro ed slope and o s.(which includer) MORTH Spot Page No.152	om with all compacting des cost of ecification No. 1tem No. 5-3.5)/2	lifts and to meet f gravel / No. 305			
3	53. Construction of embankment vileads, transporting to site, spreadiling requirement Table 300- 2 complete murrum, watering charges & compared to the compare	vith approve ng, grading e as per spo ction by vibr	d materia to require ecification atory rolle	al Gravel/Murro ed slope and o s.(which incluo r) MORTH Spo Page No.152	om with all compacting des cost of ecification No.	lifts and to meet f gravel / No. 305	44.63 44.63	300.00	13389.00
3	53. Construction of embankment vileads, transporting to site, spreadiling requirement Table 300- 2 complete murrum, watering charges & comparts of the compart	with approve ng, grading e as per spe ction by vibre re Circle 20 Cum by providing ed surface, re mooth whee	d materia to require ecification atory rolle 016-17 (1 well grad nixing by el roller	al Gravel/Murro ed slope and o s.(which incluing) MORTH Sport Page No.152 (5) 350.00 ded material, somix in place meto achieve the	om with all compacting des cost of ecification No. 1tem No. 5-3.5)/2 0.75	lifts and to meet f gravel / No. 305		300.00	13389.00
	53. Construction of embankment we leads, transporting to site, spreading requirement Table 300- 2 complete murrum, watering charges & comparts and the comparts of the construction of granular sub-base layers with motor grader on prepare at OMC, and compacting with site of the compa	with approve ng, grading e as per spection by vibro re Circle 20 Cum by providing ed surface, re mooth whee ation Clause	d materia to require ecification atory rolle 016-17 (1 well grad nixing by el roller 401.For 0	Il Gravel/Murro ed slope and o s.(which incluing) MORTH Sport Page No.152 (5) 350.00 ded material, somix in place mo to achieve the Grading III Ma	im with all compacting des cost of ecification No. 1tem No. 5-3.5)/2 0.75	lifts and to meet f gravel / No. 305 19.60) 0.17 n uniform rotavator density,	44.63	300.00	13389.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
5	Providing, laying, spreading and control bound macadam specification including with three wheel 80-100 kN applying and brooming, crushable watering and compacting to the recontrol Clause 405. By Manual Means (Water Manual Means)	uding sprea I static rolle screening to puired densit	ding in user in stage fill-up the grading	iniform thickness to proper of interstices of interstices of its as per Tec	ess, hand grade and f coarse ag hnical Spe	packing, camber, ggregate, ecification			
	Schedule Of Rates PRE, Mysur	ru Circle II.	2.5.1.6 (Page No.24	Item No.4	1.8 - 2 - A))		
		Cum	1	350.00	3.50	0.075	91.88 91.88	1870.00	171816.00
6	Providing, laying, spreading and compound macadam specification incomposition of the specification incomposition of the specification of the specification clause 405. By Manual Provided HTML Representation of the specification of the specif	luding sprea I static rolle ening/binding ng to the red	nding in u r in stage g material	uniform thicknes to proper s to fillup the	ess, hand grade and nterstices	packing, camber, of coarse			
	Schedule Of Rates PRE, Mysu	ru Circle II	.2.5.1.6 (Page No.25	Item No.4	4.7 - 3 - A)		
	,	Cum	1	350.00	3.50	0.075	91.88 91.88	2143.00	196899.00
7	Providing and applying primer coa granular base including cleaning of kg/sqm using mechanical means as	road surfac	e and spr	aying primer a	the rate o	f 0.70-1.0			
	Schedule Of Rates PRE, Mysu	ıru Circle il	.2.5.1.6 (Page No.29	Item No.	5.1-i)			
		Sqm	1	350.00	3.50		1225.00 1225.00	52.00	63700.00
							1225.00	32.00	03700.00
8	Providing and applying tack coat wat the rate of 0.25 to 0.30 kg per so & cleaned with Hydraulic broom as	qm on the pr	epared gr	anular surface	s treated w				
8	at the rate of 0.25 to 0.30 kg per so	qm on the pr per Technic	epared gr al Specifio	anular surface cation Clause \$	s treated w 503.	vith primer			

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
9	Providing, laying and rolling of open-q 13.2 mm to 5.6 mm aggregates eit required line, grade and level to sen including mixing in a suitable plant, roller capacity, finished to required Mechanical Means (Bitumen (S-65)	her using ve as wear laying and	penetration ing cours rolling wi	on grade bitu e on a previo th a three wh	men or emi usly prepare eel 80-100 l	ulsion to ed base, kN static			
	Schedule Of Rates PRE, Mysuru	ı Circle II.	.2.5.1.6 (Page No.32	Item No.5	.11 -Case	e-2 -Type-B	II)	
		Sqm	1	350.00	3.50		1225.00		
							1225.00	104.00	127400.0
10	KSRB 2-2.1 : Earthwork excavation sanitary llines and electrical conduits ordinary soil not exceeding 1.5 m. in and trenches, stacking the excavated m. after breaking of clods complete 2.3.5	either in pi depth incl d soil clear	ts or in tre uding dre from edg	nches 1.5m a ssing the bott es of excavati	nd above in om and side on with lead	width, in es of pits I upto 50			
	Schedule Of Rates PWD, Mysore	e Circle 20	016-17 (Page No.5 It	em No.2.3	i)			
	CC Drain	Cum	1	650.00	0.80	0.75	390.00 390.00	189.00	73710.0
11	KSRB 4-1.3: Providing and laying in cement @ 180kgs, with 40mm and @0.85cum and fine aggregates @ 0 in layers not exceeding 15 cms. this materials, labour, HOM of machiner No. KBS 4.1, 4.2 (Page No.12 Item)	I down siz 0.57cum m ck, well cor y, curing c	e graded achine mi mpacted,	granite meta xed, machine in foundation,	coarse ag mixed, cond including c	gregates crete laid ost of all			
	Schedule Of Rates PWD,Mysor	e Circle 2	016-17 (Page No.12	Item No.4.	.3)			
	PCC	Cum	1	650.00	0.80	0.10	52.00 52.00	4867.00	253084.0
12	Providing and laying plain/reinforcer mix concrete with OPC cement at 30 aggregates at 0.69 cum and fine ag for walls and bottom including center.	00 kgs. with gregates a ering, shutt t of steel a	n 20mm a at 0.43 cu ering, cos as per MC	nd down size m machine m t of materials RTH specific	granite met xed, well co HOM of m	al coarse ompacted achinery,			
	curing etc., complete excluding cos 2200. Wall & bottom thickness 15cm	(Page No							
	2200. Wall & bottom thickness 15cm		016-17 (Page No.26	5 Item No.	37.59.2)			
	• •		016-17 (1	Page No.26 650.00	5 Item No. 0.45	37.59.2) 0.15	43.88		
	2200. Wall & bottom thickness 15cm Schedule Of Rates PWD,Mysor	e Circle 2		_			43.88 53.63		

Commander of the Commence of t

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
13	Providing and fabricating TMT reinforcement including, straightening cutting, bending, hooking, lapping and / or welding wherever required, placing in position and tying with binding wire of approved quality and guage including cost of binding wire and anchoring to the adjoining members wherever necessary including all laps and wastages ect., complete as per design specification and directions (laps and wastages not to be measured and paid)								
	Schedule Of Rates PRE,Mysore Circle 2012-13 (Page No.VIII Item No.79 & 2.11)								
	Raft Slab & Side Wall	Kg	1	97.51	x 40 kg/cı	ım	3900.40		
						Kg MT	3900.40	56697.50	221112 00
						IVI I	3.90	50081:50	221143.00
	masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V:20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per specifications MORTH Specification No.2706 & 2200 (Page No.225 Item No.28.10) Schedule Of Rates PWD, Mysore Circle 2016-17 (Page No.225 Item No.28.1)								
	Raft Slab & Side Wall	Nos/mtr	1 / 1- 0 10 1	325.00	n men c	10.28.1)	325.00		
	National & olde Wall	1405/1110	'	323.00		MT	325.00	168.00	54600.00
15	Miscellaneous & rounding off								597.00
	Alampath Romen to	ಕಾರ್ಯಪ ಡಿಯುವ ನಿ ಪಿಸ್ತಾರೆ, ಕ್ರೆ	ಾಲಕ ಇ ಯ ಮತ್ತ ಆರಂಗಣ	ಂ ಜನಿಯರ್ ಪ್ರ ನೈ ರ್ಮ ಲ್ಯ ಪಟ್ಟಣ		1	otal		2197000.00

SUB ESTIMATE: RISING MAIN FROM PURE WATER SUMP TO MBT

	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount
1	Earth work in excavation for water su trenches (Upto 601mm trench wid including setting out construction removal of stumps and other deleter excavation earth to the extent require the following clasification by Mechanic	th) as pe of shoring ous matter, ed and utilis	r drawing strutting to dressing o	g and tech parricading,dar of sides and b	nical spec nger lighting, ottom, backfi	cification bracing, illing the			
	Schedule Of Rates PRE,Mysore	Circle 20	12-13 (Pa	age No.3 Iter	n No.1.4)				
	From PW SUMP to MBT'S NEAR V	ADIYANDAI	HALLI						
	150 mm dia pipe	cum	1	187.00	0.75	1.20	168.30		
	200 mm dia pipe	cum	1	27.50	0.80	1.25	27.50		
	250 mm dia pipe	cum	1	330.00	0.85	1.30	364.65		
i	In Ordinary soil	cum	560).45	x	45%	252.20	45.00	11349.0
ii	In Hard soil	cum	560).45	x	50%	280.23	45.00	12610.0
iii	In Ordinary rock without blasting	cum	560).45	x	5%	28.02	60.00	1681.0
2	Providing murrum or sand bedding punners etc. complete with all lead ar					lation by			
	Schedule Of Rates PRE, Mysore	Circle 20	12-13 (Pa	age No.4 Itei	m No.1.9)				
	FIGHT FW SUMP (U MIDT S NEAR	cum	1	81.68	0.60	0.10	4.90		
							4.90	78.00	382.0
3	Supplying Ductile Iron pipes K-9 Cla and conveying to worksite, rolling a perfect linking at joints, testing and destinations and cuts of pipes where (excluding cost of specials) with rubb with soap solution and applying soft rubber gaskets, jacking and fixing it soap, waste etc. and giving necessa all lead and lift including cost of joint for procuring water for testing). DI Pip 2.5%) with WPI of 141.1 as on July-2	nd lowering commission ver necessa er gaskets soap to the perfect co ry hydraulio ng materials pe rates are	into trend ing, includer ary includir including of e spigot a anditions in test to the s. (contract	ches, laying trading loading and jointing of Deleaning the sound socket enconcluding cost of required prestor will make h	ue to Iline, lo and unloading Il pipes and si cket and spi Is before ins of soap solut ssure as per is own arran	evel and y at both specials, got ends ertion of tion, soft ISS with gements	4.90	78.00	382.0
3	Supplying Ductile Iron pipes K-9 Cla and conveying to worksite, rolling a perfect linking at joints, testing and destinations and cuts of pipes where (excluding cost of specials) with rubb with soap solution and applying sof rubber gaskets, jacking and fixing it soap, waste etc. and giving necessa all lead and lift including cost of joint for procuring water for testing). DI Pip 2.5%) with WPI of 141.1 as on July-2 Schedule Of Rates KUWS & DE	nd lowering commission ver necessa- er gaskets soap to the n perfect cory hydraulic ng materials pe rates are 013	into trend ing, include ary includir including de e spigot a anditions in test to the s. (contract based on	ches, laying tri ding loading and and jointing of Dicteaning the so and socket end actuding cost of the required president tor will make high	ue to Iline, la nd unloading Il pipes and si cket and spi Is before ins of soap solut ssure as per is own arran rade Pig Iror	evel and y at both specials, got ends ertion of tion, soft ISS with gements in (Si:2%-	4.90	78.00	382.0
3	Supplying Ductile Iron pipes K-9 Cla and conveying to worksite, rolling a perfect linking at joints, testing and destinations and cuts of pipes where (excluding cost of specials) with rubt with soap solution and applying soft rubber gaskets, jacking and fixing it soap, waste etc. and giving necessa all lead and lift including cost of joint for procuring water for testing). DI Pip 2.5%) with WPI of 141.1 as on July-2 Schedule Of Rates KUWS & DE No.II.2.5.2)	nd lowering commission wer necessa er gaskets soap to the n perfect commission ng material per rates are 013	into trending, including, including of expigot a solutions in test to the section of the section	ches, laying tri ding loading and and jointing of Dicteaning the so and socket end actuding cost of the required president tor will make high	ue to Iline, la nd unloading Il pipes and si cket and spi Is before ins of soap solut ssure as per is own arran rade Pig Iror	evel and y at both specials, got ends ertion of tion, soft ISS with gements in (Si:2%-	4.90	78.00	382.0
3	Supplying Ductile Iron pipes K-9 Cla and conveying to worksite, rolling a perfect linking at joints, testing and destinations and cuts of pipes where (excluding cost of specials) with rubt with soap solution and applying soft rubber gaskets, jacking and fixing it soap, waste etc. and giving necessa all lead and lift including cost of joint for procuring water for testing). DI Pip 2.5%) with WPI of 141.1 as on July-2 Schedule Of Rates KUWS & DE No.II.2.5.2) From PW SUMP to MBT'S NEAR V. DI,K9	nd lowering commission wer necessa er gaskets soap to the n perfect commission ng material per rates are 013	into trending, including, including of expigot a solutions in test to the section of the section	ches, laying tri ding loading and and jointing of Dicteaning the so and socket end actuding cost of the required president tor will make high	ue to Iline, la nd unloading Il pipes and si cket and spi Is before ins of soap solut ssure as per is own arran rade Pig Iror	evel and y at both specials, got ends ertion of tion, soft ISS with gements in (Si:2%-	4.90	78.00	
3	Supplying Ductile Iron pipes K-9 Cla and conveying to worksite, rolling a perfect linking at joints, testing and destinations and cuts of pipes where (excluding cost of specials) with rubt with soap solution and applying soft rubber gaskets, jacking and fixing it soap, waste etc. and giving necessa all lead and lift including cost of joint for procuring water for testing). DI Pip 2.5%) with WPI of 141.1 as on July-2 Schedule Of Rates KUWS & DE No.II.2.5.2)	nd lowering commission ver necessa- er gaskets soap to the n perfect complete had been perfect on my hydraulicate and materials of rates are 013	into trending, including, including of espigot a solutions in test to the s. (contract based on the second tract based on the second tract based the second tract based the second tract based the second tract based the second tract based the second tract based the second tract based tract tractal tract	ches, laying triding loading and giointing of Deleaning the sound socket ended in the sound socket ended in the sound socket end in the socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the sound socket end in the socket end in	ue to Iline, la nd unloading Il pipes and si cket and spi Is before ins of soap solut ssure as per is own arran rade Pig Iror	evel and y at both specials, got ends ertion of tion, soft ISS with gements in (Si:2%-			382.0 315417.0 66282.0

Pipe Specilas @ 10%

143801.60

Rate

Amount

Description of works.

Unit

No.

L

В

D

Qty

SI. No.

31. NO.	Description of works.	Unit	NO.				City		Allioulit
5	Supply and Delivery of resilient sea iron of grade GGG50, wedge fully r should be of vaccum tight and 100 14846-2000/ DIN 3202 F4/F5,. The (minimum 2 "O" rings). All the valve nuts of required numbers as per rele	ubber lined w % leak proof ne steam Sea es Shall be su	rith EPDI with factaling Shipplied wi	M and Seals e dimensior ould be wit	s of NBR and is as per BS h toroidal se	the valves 5163-89/IS aling rings			
	Schedule Of Rates KUWS & D No.II.2.10.2)	B, Karnatak	a Board	1 2018-201	9 (Page No	o.18 Item			
	Valves								
	250 mm dia	Each	3				3.00	50708.00	152124.00
		Total	3						
6	Supply and Delivery of resilient sea iron of grade GGG50, wedge fully of should be of vaccum tight and 100 14846-2000/ DIN 3202 F4/F5,. TI (minimum 2 "O" rings). All the valve nuts of required numbers as per rele Schedule Of Rates KUWS & D No.II.2.10.2)	rubber lined w 1% leak proof ne steam Se es Shall be su evant IS PN 16	vith EPD with fact aling Sh pplied w	M and Seale e dimension ould be wit ith suitable	s of NBR and ns as per BS th toroidal se size galvanize	the valves 5163-89/IS ealing rings ed bolts and			
	200 mm dia	Each	2				2	33691.84	67384.00
	200 mm dia	Total	2				2	33031.04	07304.00
7	Supply and fixing of Cast Steel Do to API 594 with latest amendment conveying to work site, loading, ur rates are inclusive of cost of Bolts a	ts as detailed nloading, stac	below o	f following	diameters and	types and			
	Schedule Of Rates KUWS & D No.II.2.10.9)	B, Karnatak	a Boar	d 2018-201	19 (Page No	o.17 Item			
	Valves								
	Dia 250 mm dia	Each	3				2	25420.22	75205 00
	250 mm dia	Each Total	- 3				3	25128.32	75385.00
9	Design, Supply, Erection and Comr pipelline by replacing the Existing A for effective working of system as the Air Management System is also con Monitoring and Water Theft Monitor Reinforced Polyester with Door have equipments VALVE Pressure Transmitter 3. Field Controller Enclosure System	ir Valve at suine chock air was sting of Pre ring. AIR MAN	table loo ill leads ssure M AGEME	ation. Air Mato water han onitoring when NT SYSTEM	anagement is nmer and less ich will assist If to be made	necessary flow. This for leakage up of			
	Market Rate,								
	•	Each	3				3.00	90000.00	270000.00
40	Construction of Threat block								
10	Construction of Thrust block	A.I	9.20					000000	04000.00
	(Sub estimate enclosed)	Nos	4					6000.00	24000.00

SI. No.	. Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount
11	Construction of Valve Chamber							-	
	(Sub estimate enclosed)	Nos	6					24000.00	144000.00
12	Providing and laying reinforced cem and fixing collars with cement morta as per specifications. Specification 2300 450mm dia	r 1:2 includir	ng cost of	all materials,	labour, curi	ng complete			
	Schedule Of Rates PWD, Myso	re Circle 2	016-17 (Page No.26	64 Item No	.34.7.4)			
	450 mm dia pipe	Rmtr				·	50.00	1509.00	75450.00
13	Miscellaneous and rounding charge	s							817.40
								Total	2417000.00

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Koushik Consultant

21 .PUMPING MACHINARY PW SUMP TO MBR NEAR VADIYANDAHALLI

Sr.	21 .PUMPING MACHINARY PW SUMP TO MBR NEAR				
No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Vertical Turbine Pump set Supplying at site of work erection and commission of Centrifugal Pump set Jyothi / Kirloskar / Flow more / Mather & platt / Aqua /Worthington or any other make confirming to IS standard of pull out type with Pump and Motor Mounted on the single shaft, fitted with Mechanical seal (Double mechanical seal should be fitted. • Primary (Inboard): Silicon Carbide v/s Silicon Carbide or Tungsten Carbide v/s Tungsten Carbide • Secondary (Outboard): Carbon v/s Cast Chrome Molybdenum Steel or Silicon Carbide or Tungsten Carbide), Ball Bearing (Ball / Roller / Thrust life time lubricated Anti Friction type with life time of grease filled with life cycle of 70,000 hrs. Motor Specfication: The motor shall be of Squirrel Cage, Induction type, Air Filled yet capable of Water Immersion upto 20mwc for S1 duty. Its winding should be of Class F "H" insulation with standing capacity up to 185°C respectively. It should be wound using Dual Coated, Super Enamelled; Copper wire with high temperature index as per I.S. 4800 Part-13. Motor and pump should be IP 68 protection. MOC of Material (Impeller CF 8M, Shaft SS 316, Other Parts will be cast iron of FG 260 grade) material capable of discharging 321.788 Cum /hr fixed on I section girders for erecting pumps Duty conditions (i) Discharge of any pump when working should give a discharge of 31.658 lps				
	(ii) Head due to all causes when working parallel and should give a combined head of 138.34 m	Nos	2.00	2500000.00	5000000.00
4	Pressure guage: Supply and delivery at site Almaster/Gurusors/Forbes Marshal/Wika make gycerence filled stainless steel pressure gauge of 150mm dia suitable for the above pumpset with nipple and two way cock tubing sutaible mounting on the delivery of nump (Market Rate) 150 mm dia	Nos	2.00	1500.00	3000.00
5	PUMPING HEADER:				
	Supplying Ductile Iron pipes K-9 Class conforming to IS 8329:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to lline, level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of DI pipes and specials, (excluding cost of specials) with rubber gaskets including cleaning the socket and spigot ends with soap solution and applying soft soap to the spigot and socket ends before insertion of rubber gaskets, jacking and fixing in perfect conditions including cost of soap solution, soft soap, waste etc. and giving necessary hydraulic test to the required pressure as per ISS with all lead and lift including cost of jointing materials.				
	(contractor will make his own arrangements for procuring water for testing). DI Pipe rates are based on the Foundry Grade Pig Iron (Si:2%-2.5%) with WPI of 141.1 as on July-2013 DI Pipe K-9,Class 150 mm dia	Mts	40.00	1686.72	67468.80

Sr. No		UNIT	QТY	RATE	AMOUNT
7	COMBINED METER AND CONTROL PANEL BOARD UNIT 1) INDOOR TYPE PANEL BOARD: Supply and delivery at site brand new best indegeneous make floor mounting, free standing cubicle type control panel board unit suitable for operations on three phase 50 cycles 380/440 volts AC supply fitted with the following. Drawout type panel mounting manual operated trip free operating mechanism sheet steel clad 400 amps 25 MVA oil circuit breaker with fixed and moving contacts fitted with:- 1 No. under voltage release. 3 Nos over load trips calibrated 100% to 200% shunted by time limit fuses. 3 Nos of current transformers of suitable ratio,burden and class of accuracy. 1 No. neutral link. 1 set of compression glands for PVC cables. 1 No.earth leakage trip coil calibrated 50 to 100% or 1No earth leakage relay. Other required fittings and first fillings of oil make MEI/EASSEN/Siemens/Raas make. 1 No.dual parameter to read both amps/volts panel mounting version digital type Ammeter/Voltmeter for suitable C.T. ratio with builtin selector switch of ENERCON make (0 to 500 volts of class 0.5) 1No. of MS air insulator Bus bar chamber of 4 nos 300 Amps 25 MVA oil insulated bus bar made of high conductivity, high strength aluminium alloy complying with the requirements of grade E91,E of IS 5082 suitably braced with non-hygroscopic SMS supports provisions shall be made in the bus bar chamber for one incoming and three out going feeder 1No 350 heavy duty triple pole change over fuse switch comprising of two switches mounting on common chasis complete with handle assembly door interlock and pad locking with mechanical linkage shorting links and 200 Amps capacity HRC fuses in sheet metal enclosure confirming to the latest ISS 4064 controls and switches gear/L&T/HPL/CGL/BCH make INo 400 heavy duty triple pole change over fuse switch comprising of two switches mounting on common chasis complete with handle assembly door interlock and pad locking with mechanical linkage shorting links and 350 Amps capacity HRC fuses in sheet metal enclosur				
8	INo 250 Amps TP load break heavy duty switch fuse with suitable capacity HRC fuses in sheet metal enclosure confirming to the latest ISS 4064 for capacitor circuit of C&S/CGL/L&T/BCH/Siemens make. INo 32 Amps DP load break heavy duty switch fuse unit with Re wireable fuses in sheet metal enclosure comprising to the latest ISS 4064 for lighting circuit Siemens/L&T/BCH/GE/Control and switch gear make. I set of cable entries and terminals to suitable for numbers type and size of cable entries and terminals to suitable for numbers type and size of cable entries and terminals to suitable for numbers type and size of cable entries and terminals to suitable for numbers type and size of cable entries and terminals to suitable for numbers type and size of cables at a (Market Pate) AUTO TRANSFORMER STARTERS:-Supply and delivery at site brand new best indegeneous make totally enclosed sheetsteel clad, dust set and vermine proof free standing floor mounting fully automatic auto transformer starter suitable for operations on 3 ph 50 HZ 380/440 volts AC supply fitted with the following. 3 nos 415v 450/300/300 Amps suitably rated oil break motor duty contractors for main transformers and neutral conforming to the latest ISS 2959/IEC 158-1 OF MEI/BCH/L&T/GE/SIEMENS make. 3No current transformers for suitable ratio, burden and class of accuracy confirming to the latest ISS 2705 with 15 VA output for protection(10P10) and metering. 1No 0.5 to 60 seconds pneumatic ON and OFF delay timer for automatic change over from reduced voltage to full voltage of BCH/GE/SIEMENS Make. 1 set start-stop push button confirming to the latest ISS 6875 of L&T/BCH/GE/SIEMENS/Raas make.	Each	2.00	350000.00	700000.00

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Sr. No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	1 No dial parameter to measure volts/amps panel mounting version digital type voltmeter /ammeter for suitable CT ratio with built in selector switch of ENERCON make of class 0.5. 1 No thermostat for protection of autotransformer of excessive heating. 1No C.T. operated thermal over load relay of L&T/BCH/GE/SIEMENS/Raas make. 1No control transformer of ratio 415/230 volts, single phase 50 HZ 800 VA burden air cooled class-1 of C&S make. 1No single phase preventer of minilec/prokedevy's make.				
	1No under/over voltage rellay of prokedevy's/EE make with built in P.T's for each phase.				
	1 set indicating lamp RED GREEN AND AMBER LAMP of rating 230 volts AC of L&T/BCH/GE/SIEMENS/Raas make. 1 No alarm bell suitable for 230v,AC,50 HZ. 1No cable box with compression type cable glands for INCOMING. 1No cable box with compression type cable glands for OUTGOING 1no. earth leakage relay with core balanced CT of prokedavy's make. 1 Set of control terminals and power terminals.				
	1 No oil immersed naturally oil cooled auto transformer starter for motor starting duty with 50%,60% and 80% tappings and regulations 10% seperate sheet metal enclosure with first filling of oil. (Market Rate) CABLES: Supplying and laying LT UG cables having aluminium conductor PVC insulated,	Each	2.00	385000.00	770000.00
	sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class class A cables. SR Electrical works PWD 2013-14 Pg-67 Item-10-g 3.5 core 95 somm	Rmt	200.00	531.00	106200.00
	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall / on pole as required. SR Electrical works PWD 2010-11 Pg-68 Item-11-b Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required	Rmt	150.00	14.00	2100.00
	ground level and consolidating etc., complete (As per Civil SR KSRB I-2, P-7) a. In				
iv	soil (Hard) SR Electrical works PWD 2010-11 Pg-68 Item-12 Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150mm alround the cable .SR Electrical works PWD 2007-08 Pg-69 Item-	Rmt Rmt	150.00 150.00	50.00	7500.00
v	a) Connection of Motor: 3 core 95 mm2 in parallel for the connection of motor to starters panel board IS 1554(PART-1)1998. SR Electrical works PWD 2011-12 Pg-67 Item-10-e3.5 core 25 sqmm -rate for cable Rs.215+Labour charges for laying Rs.18		50.00	66.00 226.00	9900.00 11300.00
10	KVAR POWER SHUNT CAPACITOR: KVAR POWER SHUNT CAPACITOR:-				
	Supply and delivering at site brand new NGEF/SHAKTI/BAJAJ/CHITANYA/MAKE Low loss high efficient 8 KVAR or power shunt capacitor bank confirming to ISS				
	2834/suitable for operation on 3 phase 380/440 volts AC supply required for maintaining the power factor of the installation at not less than 0.95 lagging. 25 KVAR (Market Rate)	l	1.00	98000.00	98000.00
22	Supplying delivery and errection at site brand new Dorot/Bermad/ Erthard mak 80 mm dia with maximum permissible pressure 18 Kg/cm2 with the following specification. Valve should have direct sealing diaphragm Activated by line pressure and controled by 2 way diaphragm operated adjustable pilot valve.				
	Dorot valve should be installed on a tee junction. Which should modulate automatically to maintain preset inlet pressure and relieve the excess pressure out of the network. Material construction; 1. Body & Bonet- Ductile Iron ISO 1083 Grade 450-10				
	2. Diaphragm- Natural rubber (N.R) (Standerd) 3. Spring-SST 302 4. Pilot valve- Brass ISO 426				
i 	5. Coating - Electrically applied, oven backed polyster 6. End connection- Flanges BS-IS	Each	1.00	110000.00	110000.00
23	Tool. Kit: Supply and delivery at site best make or Taparia make and other required make tool sets for operation and maintenance of the above pumpsets comprising of the following	1	1.00	12000.00	12000.00

Sr. No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	a. Double end spanner 1/4" - 1 Set b. Screw driver insulated 11" - 1 No c. Screw drive insulated 8" - 1 No. d. Cutting pullar insulated 8" - 1 No. e. Hammer with handle 1 Kg - 1 No. f. Pipe wrench 18" - 1 No. g. Pipe wrench 24" - 1 No. h. Pipe wrench 12" - 1 No. i. Hammer with handle 5 Kg - 1 No. i. Grease gun - 1 No. k. Ring spanners 1/4" to 1" - 1 Set				
24	Fire fighting equipment. a) Supply and installation of CO ₂ type fire estinguisher 2 Kg capacity with initial charges with wall mounting bracket, ready for use (TS 2678) -2 Nos b) Supplying and fixing of first aid box comprising of the standard medicines to be provided in the first aid box to give first aid treatment- 1 No. c) Providing shock treatment chart on the wall with inside plastic sheet cover and plywood back plate frame work complete. d) Supply one set of buckets (4 nos) with round bottom made of GI sheets24 SWG 9 ltr. capacity painted inside white and outside red with a word 'fina' on the face of the bucket along with stand to hang the buckets. e) Supplying rubber mats tested 22 KV with ISI mark grooved of size 6'x3'x1/2" - 2 Nos. f) Supplying rubber gloves, electrical quality, tested to 22 KV - 1 Pair. g) Supplying and fixing of Danger/ No. Admission/ No. Smoking Board made out		_		
25	of MS sheet metal with two coats of non-corrosive enamelled paint. EARTHING: a) Earthing with G.I. plate 600mm X 600mm X 6mm including accessories like masonry enclosure cover plate with locking arrangement, watering pipe charcoal and salt complete as required connecting through G.I. strips.		2.00	3500.00	7000.00
26	b) Earth electrode for grounding Electrical equipment by providing the earth pit using 40mm dia, 2.90mm thick G.I Pipe 2.5 mts long buried in a pit. The pit should be filled with equal proportion of salt and charcoal 150 mm around the pipe to complete depth. The connections from the pipe to the conduits etc., is to be established through G.I. wire of size as per ISI Specification 7.3.3 of IS 732 using 12 mm bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia Gulbarga SP Erection, testing, commissioning and trial running of turbine pump and motor with all accessories necessary for satisfactory running of pump including cost of all materials, machinery, labour etc., complete as per specification of contract. Including cost of running the pumping machinery successfully for 60 days (Excluding the cost of KPTCL Bill for supply of power)	Job	4.00	2000.00	8000.00
_ =	More than Above 50 HP with all accessories	No	1.00	15600.00	15600.00
				TOTAL	6928068.80 6928100.00

C. Manjach -

Assistant Executive Engineer PRE sub Division Srirangapatna

Executive Engineer PRE Division Mandya

SUB ESTIMATE: MBT(GLSR) 2.5 LAKH LTRS CAPACITY

I. No	. Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Earth work excavation for foundatio exceeding 50 mtrs and with a lift up danger lighting etc., complete By Ma	pto 1.50 m	trs. Includi						
	Schedule Of Rates PRE, Mysore	e Circle 20	012-13 (F	age No.1	Item No.1.	1)			
	b) In Hard soil	cum	0.785	9.30	9.30	0.45	30.55	171.00	5224.00
2	Providing and laying granite or basa size jelly for foundation laid in 15 cm by using hand mixers, curing etc. con	n thick laye	rs and wel	cum comp	acted includi	ng mixing			
	Schedule Of Rates PRE, Mysore	e Circle 20	012-13 (F	age No.6	Item No.2.	1)			
	Bed Concrete	cum	0.785	9.30	9.30	0.15	10.18	3864.00	39352.00
3	Providing and laying vibrated cement excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort including machline mixing, vibrating and giving satisfactory water proof charges). For flat or floor slab (M-30)	n 20 mm a Super plas and conver tar plasteria , curing ma f testing et	nd down s sticiser @ yance of a ng 1:3 pro aking cons	ize of grar 3ltrs confinal all material oportion, 2 truction joi	ite of trap or ming to IS 9 s including f 0 mm thick nt wherever	basalt or 103-1999 form work for inside necessary			
3	excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort including machline mixing, vibrating and giving satisfactory water proof	n 20 mm a Super plas and convertar plasteria to curing ma f testing et	nd down s sticiser @ yance of a ng 1:3 pro aking cons cc. (Exclus	ize of grar 3ltrs confinal all material oportion, 2 truction join ve of cost	ite of trap or rming to IS 9 s including 1 0 mm thick nt wherever 1 of steel & 1	basalt or 1103-1999 form work for inside necessary fabrication			
3	excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort including machline mixing, vibrating and giving satisfactory water proof charges). For flat or floor slab (M-30)	n 20 mm a Super plas and convertar plasteria to curing ma f testing et	nd down s sticiser @ yance of a ng 1:3 pro aking cons cc. (Exclus	ize of grar 3ltrs confinal all material oportion, 2 truction join ve of cost	ite of trap or rming to IS 9 s including 1 0 mm thick nt wherever 1 of steel & 1	basalt or 1103-1999 form work for inside necessary fabrication	19.08	5774.00	110142.00
3	excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort including machline mixing, vibrating and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore M-30 for Raft -do- for Vertical side walls	n 20 mm a Super plas and convertar plasteria to curing ma f testing et curm	nd down s sticiser @ yance of a ng 1:3 pro aking cons c. (Exclusion 012-13 (F	altrs confinal material portion, 2 truction joi ve of cost	ite of trap or ming to IS 9 s including 1 0 mm thick nt wherever in of steel & 1 Item No.2.	basalt or 1103-1999 form work for inside necessary fabrication		5774.00	110142.00
	excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort including machline mixing, vibrating and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore M-30 for Raft	n 20 mm a Super plas and convertar plasteria to curing ma f testing et curm	nd down s sticiser @ yance of a ng 1:3 pro aking cons c. (Exclusion 012-13 (F	altrs confinal material portion, 2 truction joi ve of cost	ite of trap or ming to IS 9 s including 1 0 mm thick nt wherever in of steel & 1 Item No.2.	basalt or 1103-1999 form work for inside necessary fabrication		5774.00	110142.00
	excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort including machline mixing, vibrating and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore M-30 for Raft -do- for Vertical side walls Schedule Of Rates PRE, Mysore Company of the control of the contr	n 20 mm a Super plas and convertar plasteria curing ma testing et curm	nd down s sticiser @ yance of a ng 1:3 pro aking cons c. (Exclusion 012-13 (F 0.785	all material portion, 2 truction join ve of cost 9.00	ite of trap or ming to IS 9 s including 10 mm thick nt wherever of steel & 1 ltem No.2. 9.00	basalt or 1103-1999 form work for inside necessary abrication 10.1) 0.30	19.08	5774.00	110142.00
	excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort including machline mixing, vibrating and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore M-30 for Raft -do- for Vertical side walls Schedule Of Rates PRE, Mysore Company of the control of the contr	n 20 mm a Super plas and convertar plasteria curing ma testing et curm	nd down s sticiser @ yance of a ng 1:3 pro aking cons c. (Exclusion 012-13 (F 0.785	all material portion, 2 truction join ve of cost 9.00	ite of trap or ming to IS 9 s including 10 mm thick of wherever of steel & 10 ltem No.2. 9.00 No.2.10.2) 0.25	basalt or 1103-1999 form work for inside necessary abrication 10.1) 0.30	19.08	5774.00	110142.00

SI. No	. Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
5	Providing and laying Reinforced ce graded granite or trap or basalt journal super plasticiser @ 3lts confirming well consolidated including center required plumb and face in CM.1: design and specifications etc., com of steel and fabrication charges)	elly of appro to IS-9103-2 ing, formworl 3 proportion	ved qualit 008 in layo k, vibratin wherever	y of 20mm ers of not m g, curing, s necessary	and dowr ore than 1: mooth finis etc., comp	n size, with 5 cms thick, shing to the olete as per			
	Schedule Of Rates PRE, Myso	re Circle 20)12-13 (F	Page No.2	7 Item No	.4.4b)			
		(:	2 x 3.142)						
	CC M-25 Top dome	cum	6.284	8.500	1.000	0.100	5.34		
	Top Ring beam	cum	3.142	0.675	0.150	0.150	0.05		
	Deductions								
	Cover	cum	-1	0.600	0.600	0.100	-0.04		
	Final open	cum	-0.785	0.600	0.600	0.100	-0.03	000400	40000 00
							5.32	9384.00	49968.00
6	Providing and fabricating TMT rehooking, lapping and / or welding binding wire of approved quality at the adjoining members wherever reas per design specification and direction.	nd guage inc necessary inc ections (laps	luding cos cluding all and wasta	t of binding laps and wages not to b	wire and a astages ec e measure	anchoring to et., complete ed and paid)			
0	hooking, lapping and / or welding binding wire of approved quality at the adjoining members wherever it as per design specification and direct schedule Of Rates PRE, Myso 2.11) Qty of Item No 3 Qty of Item No 4	nd guage inc necessary inc ections (laps	luding cosciluding all and wasta on the second seco	at of binding laps and wa ges not to b Page No.V	wire and a astages economic measure. III Item No. 100	enchoring to t., complete ed and paid) o.79 & Kg/Cum Kg/Cum	1907.55 3711.61		
0	hooking, lapping and / or welding binding wire of approved quality at the adjoining members wherever in as per design specification and direct schedule Of Rates PRE, Myso 2.11) Qty of Item No 3	nd guage inc necessary inc ections (laps	luding cos cluding all and wasta 012-13 (F	et of binding laps and wa ges not to be Page No.V @ @ @	wire and a astages ec e measure III Item No	enchoring to tt., complete ed and paid) o.79 & Kg/Cum	3711.61 638.98		
0	hooking, lapping and / or welding binding wire of approved quality at the adjoining members wherever it as per design specification and direct schedule Of Rates PRE, Myso 2.11) Qty of Item No 3 Qty of Item No 4	nd guage inc necessary inc ections (laps	luding cosciluding all and wasta on the second seco	et of binding laps and war ges not to be Page No.V @ @ @ Kg	wire and a astages economic measure. III Item No. 100	enchoring to t., complete ed and paid) o.79 & Kg/Cum Kg/Cum	3711.61 638.98 6258.14		
0	hooking, lapping and / or welding binding wire of approved quality at the adjoining members wherever it as per design specification and direct schedule Of Rates PRE, Myso 2.11) Qty of Item No 3 Qty of Item No 4	nd guage inc necessary inc ections (laps	luding cosciluding all and wasta on the second seco	et of binding laps and wa ges not to be Page No.V @ @ @	wire and a astages economic measure. III Item No. 100	enchoring to t., complete ed and paid) o.79 & Kg/Cum Kg/Cum	3711.61 638.98	56697.50	354821.00
7	hooking, lapping and / or welding binding wire of approved quality at the adjoining members wherever it as per design specification and direct schedule Of Rates PRE, Myso 2.11) Qty of Item No 3 Qty of Item No 4	exagonal ver 20) proportio S rods 4 no atilator to be of the with diaments including	luding cosciluding all and wasta on 12-13 (Final 19.08 and 19.08 and 19.08 and 19.09	et of binding laps and water ges not to be page No.V @ @ @ @ Kg MT al for RCC of 20mm and ch of the pilex 0.5 M size in to its full with CM 1:3 its of anti-co	wire and a stages ed to be measured in the months of the months of the months of the measured in the months of the measured in the measu	enchoring to et., complete ed and paid) o.79 & Kg/Cum In the finial ed pelly with ways for full with 25mm x and depth fully in to required the for frame	3711.61 638.98 6258.14	56697.50	354821.00
	hooking, lapping and / or welding binding wire of approved quality at the adjoining members wherever in as per design specification and direct schedule Of Rates PRE, Mysoc 2.11) Qty of Item No 3 Qty of Item No 4 Qty of Item No 5 Providing and constructing RCC has to be constructed with CC (M-2 reinforcement using 6mm dia., Mowidth of doom at 12cm c/c, the ver 25mm x 5mm M.S. frame welded covered with aluminum mosquitor shape and size and ornamental file.	exagonal ver 20) proportions of a with diamental finished with diamental finished including to paint match	luding cosciluding all and wasta on 19.08 and 37.12 and 19.08 are solved as a	at of binding laps and water and water and water and water and and and and and and and and and and	wire and a astages ed to be measured in the months of the months of the months of the months of the months of the months of the months of the measured in the measured in the months of the measured in the measured i	canchoring to ott., complete ed and paid) co.79 & Kg/Cum Kg/Cum Kg/Cum Kg/Cum Kg/Cum Kg/Cum Kg/Cum Kg/Cum In the finial ed jelly with ways for full with 25mm x and depth fully in to required the for frame lete	3711.61 638.98 6258.14	56697.50	354821.00
	hooking, lapping and / or welding binding wire of approved quality at the adjoining members wherever it as per design specification and direct schedule Of Rates PRE, Mysoc 2.11) Qty of Item No 3 Qty of Item No 4 Qty of Item No 5 Providing and constructing RCC has to be constructed with CC (M-2 reinforcement using 6mm dia., M. width of doom at 12cm c/c, the ver 25mm x 5mm M.S. frame welded covered with aluminum mosquitor shape and size and ornamental fit and mesh and two coats of cements.	exagonal ver 20) proportions of a with diamental finished with diamental finished including to paint match	luding cosciluding all and wasta on 19.08 and 37.12 and 19.08 are solved as a	at of binding laps and water and water and water and water and and and and and and and and and and	wire and a astages ed to be measured in the months of the months of the months of the months of the months of the months of the months of the measured in the measured in the months of the measured in the measured i	canchoring to ott., complete ed and paid) co.79 & Kg/Cum Kg/Cum Kg/Cum Kg/Cum Kg/Cum Kg/Cum Kg/Cum Kg/Cum In the finial ed jelly with ways for full with 25mm x and depth fully in to required the for frame lete	3711.61 638.98 6258.14	56697.50 3970.00	354821.00 3970.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
8	Providing and fixing 60x60 cms M of M.S. angle 50x50x6mm and M. and locking arrangement, painting	S. shutters of	f 31.5mm d	or B.G.10 th	hick with hin	iges on top			
	Schedule Of Rates PRE,Mysc	ore Circle 20)12-13 (F	Page No.3	0 Item No.	4.9)			
	Inspection door 0.6*0.6	Nos	1				1	1787.00	1787.00
9	Ladder inside the contaliner: Prov. mm (approx.) "C" Section x 3.0 m rungs at 250 mm C/C ladder fii necessary 25mm dia., G.I. shutter lhe Tank walls to prevent bucklembedding the ladder bottom com	nm of ladder axed at an are swith necessing of the later	side chann ngle of 70 sary G.I. fa	els in to 25 degrees steners for	5mm dia flu to horizonta bracing the	tal pipe for al including ladders to			
	Schedule Of Rates PRE,Mysc	ore Circle 20	012-13 (F	age No.2	9 Item No.	4.6 b)			
	Aluminium ladder	Rmt	1	4.25			4.25	2609.00	11088.00
10	Providing 2 coats of snowcem p exposed faces, removing loose surface, replastering wherever re scaffolding & curing etc. (Including	plastering rer quired in C.N	moval of wall 1:3 to the	egetations	, fungus, cl	eaning the			
	Schedule Of Rates PRE, Myso	ore Circle 20	012-13 (F	Page No.3	1 Item No.	4.14)			
	Side wall out side	sqm	3.142 (2x3.142)	8.50		5.05	134.87		
	Top dome Deductions	sqm	6.284	8.500	1.000		53.41		
	Opening	sqm	-0.785	0.60	0.60		-0.28		
	Inspection door	sqm	-1	0.60	0.60		-0.36 187.64	189.00	35464.00
11 a	Supplying & Fixing CI puddle flangin position for R.C.C. walls including and lift etc., complete. Schedule Of Rates KUWS & Item No.III.1.14) CI Puddle Flanges	ng hoisting ar	nd conveyi	ng them to	work spot v	vith all lead			
	250 mm dia	Nos	2				2	10721.76	21444.00
	200 mm dia	Nos	1				1	8264.48	8264.00
	100 mm dia	Nos	2				2	3552.64	7105.00
b	Cl double flanged pipes								
	250 mm dia	Mtr	2	15			30	7666.40	229992.00
	200 mm dia	Mtr	1	15			15	5776.96	86654.00
	100 mm dia	Mtr	2	15			30	2686.88	80606.00

SI. No. Description of works. Unit No. L B D Qty Rate Amount.

Supply and Delivery of resilient seated soft sealing Sluice Valves with body, bonnet of Ductile iron of grade GGG50, wedge fully rubber lined with EPDM and Seals of NBR and the valves should be of vaccum tight and 100% leak proof with face dimensions as per BS 5163-89/IS 14846-2000/ DIN 3202 F4/F5,. The steam Sealing Should be with toroidal sealing rings (minimum 2 "O" rings). All the valves Shall be supplied with suitable size galvanized bolts and nuts of required numbers as per relevant IS PN 16

Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.18 Item No.II.2.10.2)

250 mm dia	Each	2	2.00	50708.00	101416.00
200 mm dia	Each	1	1.00	33691.84	33692.00
100 mm dia	Each	1	1.00	12138.56	12139.00

13 Providing & Constructing SSM Valve Chamber (as per Typical estimate enclosed)

Nos 4 4 24000.00 96000.00

14 Rounding off

551.00 1545000.00

Total

ಶಿಷ್ಟ್ರಾಂತಿ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ಸೈರ್ಮ್ನಲ್ಲಿಂಡ ಗ್ರಾಮೀಜ ವಿಭಾಗ. ಶ್ರೀರಂಗಪ್ಪಟ್ಟಿಗಳುರ್ಮಲ್ಯ ಉಪ-ಎಫಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

SUB ESTIMATE: ZBT(GLSR) 1.5 LAKH LTRS CAPACITY

	Description of works.	Unit	No.	L	B	D	Qty	Rate	Amount.
1	Earth work excavation for foundation including setting out, construction or removal of stumps and other delete the excavation earth to the extent rework etc, complete by Mechanical Mechan	of shoring,s rious matte equired an	strutting baser, dressin	arricading,d	anger lighting and bottom,	ng,bracing, backfilling			
	Schedule Of Rates PRE,Mysore	Circle 2	012-13 (F	Page No.2	Item No.1	.3)			
	b) In Hard soil	cum	0.785	8.30	8.30	0.45	24.34	30.00	730.00
2	Providing and laying granite or trap of size jelly for foundation laid in 15 cm mixing, curing etc. complete as pe	thick laye	rs and wel	I compacte	d including				
	Schedule Of Rates PRE, Mysore	Circle 2	012-13 (i	Page No.6	Item No.2	.2)			
	Bed Concrete	cum	0.785	8.30	8.30	0.15	8.11	3984.00	32317.00
3	Providing and laying vibrated cemen excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort including machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30)	20 mm a Super pland and conver ar plasteri curing ma	nd down s sticiser @ yance of a ng 1:3 pro aking cons	size of gran 3ltrs confir all material oportion, 2 struction join	ite of trap or ming to IS s including 0 mm thick nt wherever	r basalt or 9103-1999 form work for inside necessary			
3	excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort including machline mixing, vibrating, and giving satisfactory water proof	20 mm a Super pland and conver ar plasteri curing ma testing et	nd down s sticiser @ yance of a ng 1:3 pro aking cons c. (Exclus	size of gran 3ltrs confir all material oportion, 2 struction joil ive of cost	ite of trap of ming to IS s including 0 mm thick nt wherever of steel &	r basalt or 9103-1999 form work for inside necessary fabrication			
3	excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort- including machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30)	20 mm a Super pland and conver ar plasteri curing ma testing et	nd down s sticiser @ yance of s ng 1:3 pro aking cons c. (Exclus	size of gran 3ltrs confir all material oportion, 2 struction joil ive of cost	ite of trap of ming to IS s including 0 mm thick nt wherever of steel &	r basalt or 9103-1999 form work for inside necessary fabrication		5774.00	87026.00
3	excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort including machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore M-30 for Raft -do- for Vertical side walls	20 mm a Super place and conve ar plasteri curing ma testing et	nd down s sticiser @ yance of a ng 1:3 pro- aking cons c. (Exclus	size of gran 3ltrs confir all material oportion, 2l struction join ive of cost Page No.9 8.00	ite of trap of ming to IS including 0 mm thick of wherever of steel & Item No.2.	r basalt or 9103-1999 form work for inside necessary fabrication		5774.00	87026.00
	excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort including machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore M-30 for Raft	20 mm a Super place and conve ar plasteri curing ma testing et	nd down s sticiser @ yance of a ng 1:3 pro- aking cons c. (Exclus	size of gran 3ltrs confir all material oportion, 2l struction join ive of cost Page No.9 8.00	ite of trap of ming to IS including 0 mm thick of wherever of steel & Item No.2.	r basalt or 9103-1999 form work for inside necessary fabrication		5774.00	87026.00
	excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort including machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore M-30 for Raft -do- for Vertical side walls Schedule Of Rates PRE, Mysore Circles Sche	20 mm a Super pland conversar plastering curing matesting et curing nd down sticiser @ yance of and 1:3 proaking const. (Exclus) 012-13 (I 0.785	size of gran 3ltrs confir all material oportion, 2l struction join ive of cost Page No.9 8.00	ite of trap of ming to IS including 0 mm thick in wherever of steel & Item No.2. 8.00	r basalt or 9103-1999 form work for inside necessary fabrication .10.1)	15.07	5774.00	87026.00	
	excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mort including machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore M-30 for Raft -do- for Vertical side walls Schedule Of Rates PRE, Mysore Circles Sche	20 mm a Super pland conversar plastering curing matesting et curing nd down sticiser @ yance of and 1:3 proaking const. (Exclus) 012-13 (I 0.785	size of gran 3ltrs confir all material oportion, 2l struction join ive of cost Page No.9 8.00	ite of trap of ming to IS including 0 mm thick of wherever of steel & Item No.2. 8.00 No.2.10.2)	r basalt or 9103-1999 form work for inside necessary fabrication .10.1)	15.07	5774.00	87026.00	
	excluding cost of reinforcement with any other approved hard jelly with Reaffirmed - 2008 including cost a centering scaffolding, cement mortincluding machline mixing, vibrating, and giving satisfactory water proof charges). For flat or floor slab (M-30) Schedule Of Rates PRE, Mysore M-30 for Raft -do- for Vertical side walls Schedule Of Rates PRE, Mysore Ci Side wall	20 mm a Super place and conve ar plasteri curing me testing et cum cum	nd down sticiser @ yance of a ng 1:3 proaking constant c. (Exclus) 012-13 (I 0.785) 13 (Page 3.142)	size of grandal size of grandal size of grandal size of confinence of cost size of	ite of trap of ming to IS including of mm thick int wherever of steel & Item No.2. 8.00 No.2.10.2) 0.25 (1/2x0.25)	r basalt or 9103-1999 form work for inside necessary fabrication 0.30	15.07 29.90	5774.00	87026.00

SI. No	. Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
5	Providing and laying Reinforced cen graded granite or trap or basalt jel super plasticiser @ 3lts confirming to well consolidated including centerin required plumb and face in CM.1:3 design and specifications etc., comp of steel and fabrication charges)	ly of appro o IS-9103-2 g, formwor proportion	ved quali 2008 in lay k, vibratin wherever	ty of 20mm ers of not m g, curing, s necessary	and dowr ore than 1: mooth finis etc., comp	n size, with 5 cms thick, shing to the olete as per			
	Schedule Of Rates PRE,Mysore	e Circle 20	012-13 (1	Page No.2	8 Item No	.4.4C)			
	a)6 m staging								
		(2 x 3.142)	ı					
	CC M-25 Top dome	cum	6.284	6.625	1.000	0.100	4.16		
	Top Ring beam	cum	3.142	0.675	0.150	0.150	0.05		
	Deductions								
	Cover	cum	-1	0.600	0.600	0.100	-0.04		
	Final open	cum	-0.785	0.600	0.600	0.100	-0.03		
							4.15	9525.00	39496.00
	binding wire of approved quality and the adjoining members wherever not as per design specification and direct schedule Of Rates PRE, Mysor Qty of Item No 3 Qty of Item No 4 Qty of Item No 5	ecessary ind ctions (laps	cluding all and wasta	laps and wages not to b	astages ec pe measure	t., complete ed and paid)	1507.20 3261.51 497.59		
				Kg			5266.31		
				MT			5.27	56697.50	298586.00
7	Providing and constructing RCC here to be constructed with CC (M-20 reinforcement using 6mm dia., M.S width of doom at 12cm c/c, the vention 25mm x 5mm M.S. frame welded covered with aluminum mosquito meshape and size and ornamental finitiand mesh and two coats of cement	n) proportice rods 4 no lator to be with diam esh finished sh including	on using s., for each of 0.45 M sound meshed smooth grown grown two coars.	20mm and ch of the pi x 0.5 M size n to its full with CM 1:3 ts of anti-co	down sizellars both was provided was width and proportion rosive pai	e jelly with ways for full vith 25mm x depth fully to required nt for frame			
	Schedule Of Rates PRE,Mysor	e Circle 20	012-13 (Page No.3	0 Item No	.4.8)			
		Nos	1			,	1	3970.00	3970.00

9 Ladder inside the contaliner: Providing and Anodised Aluminium ladder, using 65 mm x 32 mm (approx.) "C" Section x 3.0 mm of ladder side channels in to 25mm dia flutal pipe for rungs at 250 mm C/C ladder flixed at an angle of 70 degrees to horizontal including necessary 25mm dia, G.I. shutters with necessary G.I. fasteners for bracing the ladders to line Tank walls to prevent buckling of line ladder with necessary C.C. (M15) bed for embedding the ladder bottom complete Schedule Of Rates PRE,Mysore Circle 2012-13 (Page No.29 Item No.4.6 b) Aluminium ladder Rmt 1 4.25 4.25 2609.00 11088.00 Providing 2 coats of snowcem painting over one coat of primer including scrapping the exposed faces, removing loose plastering removal of vegetations, fungus, cleaning the surface, replastering wherever required in C.M 13 to the required shape with necessary scaffolding & curing etc. (Including cost of materials) Schedule Of Rates PRE,Mysore Circle 2012-13 (Page No.31 Item No.4.14) Side wall out side sqm 3.142 7.50 5.05 119.00 Top dome sqm 6.284 6.625 1.000 41.63 Deductions Opening sqm -0.785 0.60 0.60 -0.28 Inspection door sqm -1 0.60 0.60 -0.28 Inspection door sqm -1 0.60 0.60 -0.36 159.99 189.00 30239.00 11 Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.40 Item No.III.1.14) a CI Puddle Flanges 200 mm dia Nos 2 2 2 8264.48 16529.00 100 mm dia Nos 2 2 2 3552.64 7105.00 b CI double flanged pipes 200 mm dia Mr 2 10 20 5776.96 115539.00	SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
Inspection door 0.6*0.6 Nos 1 1 1787.00 1787.00 9 Ladder inside the contailiner : Providing and Anodised Aluminium ladder, using 65 mm x 32 mm (approx.) "C" Section x 3.0 mm of ladder side channels in to 25mm dia flutal pipe for rungs at 250 mm C/C ladder fixed at an angle of 70 degrees to horizontal including necessary 25mm dia, G.I. shutters with necessary G.I. fasteners for bracing the ladders to the Tank walls to prevent buckling of the ladder with necessary C.C. (M15) bed for embedding the ladder bottom complete Schedule Of Rates PRE,Mysore Circle 2012-13 (Page No.29 Item No.4.6 b) Aluminium ladder Rmt 1 4.25 4.25 2609.00 11088.00 10 Providing 2 coats of snowcem painting over one coat of primer including scrapping the exposed faces, removing loose plastering removal of vegetations, fungus, cleaning the surface, replastering wherever required in C.M 1:3 to the required shape with necessary scaffolding & curing etc. (Including cost of materials) Schedule Of Rates PRE,Mysore Circle 2012-13 (Page No.31 Item No.4.14) Side wall out side sqm 3.142 7.50 5.05 119.00 19.00 Top dome sqm 6.284 6.625 1.000 41.63 Deductions Opening sqm -0.785 0.60 0.60 -0.28 Inspection door sqm -1 0.60 0.60 -0.36 159.99 189.00 30239.00 11 Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.40 Item No.III.1.14) a CI Puddle Flanges 200 mm dia Nos 2 2 2 8264.48 16529.00 100 mm dia Nos 2 2 2 3552.64 7105.00 b CI double flanged pipes 200 mm dia Mtr 2 10 20 5776.96 115539.00	8	of M.S. angle 50x50x6mm and M.S.	S. shutters of	f 31.5mm	or B.G.10 tl	nick with hir	nges on top			
9 Ladder inside the contailiner: Providing and Anodised Aluminium ladder, using 65 mm x 32 mm (approx.) "C" Section x 3.0 mm of ladder side channels in to 25mm dia flutal pipe for rungs at 250 mm C/C ladder flixed at an angle of 70 degrees to horizontal including necessary 25mm dia, G.I. shutters with necessary G.I. fasteners for bracing the ladders to lihe Tank walls to prevent buckling of lihe ladder with necessary C.C. (M15) bed for embedding the ladder bottom complete Schedule Of Rates PRE,Mysore Circle 2012-13 (Page No.29 Item No.4.6 b.) Aluminium ladder Rmt 1 4.25 4.25 2609.00 11088.00 Providing 2 coats of snowcem painting over one coat of primer including scrapping the exposed faces, removing loose plastering removal of vegetations, fungus, cleaning the surface, replastering wherever required in C.M.13 to the required shape with necessary scaffolding & curing etc. (Including cost of materials) Schedule Of Rates PRE,Mysore Circle 2012-13 (Page No.31 Item No.4.14.) Side wall out side sqm 3.142 7.50 5.05 119.00 Top dome sqm 6.284 6.625 1.000 41.63 Deductions Opening sqm -0.785 0.60 0.60 -0.28 Inspection door sqm -1 0.60 0.60 -0.28 Inspection door sqm -1 0.60 0.60 -0.36 159.99 189.00 30239.00 11 Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.40 Item No.1II.1.14) a CI Puddle Flanges 200 mm dia Nos 2 2 2 8264.48 16529.00 100 mm dia Nos 2 2 2 3552.64 7105.00 b CI double flanged pipes 200 mm dia Mtr 2 10 20 5776.96 115539.00		Schedule Of Rates PRE,Mysor	re Circle 20)12-13 (F	Page No.3	0 Item No.	.4.9)			
mm (approx.) *C* Section x 3.0 mm of ladder side channels in to 25mm dia flutal pipe for rungs at 250 mm C/C ladder flixed at an angle of 70 degrees to horizontal including necessary 25mm dia., CI, shutters with necessary C.C. (M15) bed for embedding the ladder bottom complete **Schedule Of Rates PRE,Mysore Circle 2012-13 (Page No.29 Item No.4.6 b) Aluminium ladder Rmt 1 4.25 4.25 2609.00 11088.00 **Providing 2 coats of snowcem painting over one coat of primer including scrapping the exposed faces, removing loose plastering removal of vegetations, fungus, cleaning the surface, replastering wherever required in C.M 1:3 to the required shape with necessary scaffolding & curing etc. (Including cost of materials) **Schedule Of Rates PRE,Mysore Circle 2012-13 (Page No.31 Item No.4.14) **Side wall out side sqm 3.142 7.50 5.05 119.00 **Top dome sqm 6.284 6.625 1.000 41.63 **Deductions** **Opening sqm -0.785 0.60 0.60 -0.28 **Inspection door sqm -1 0.60 0.60 -0.36 **Inspection door sqm -1 0.60 0.60 -0.36 **Inspection for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. **Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.40 Item No.III.1.14) **a CI Puddle Flanges** **200 mm dia Nos 2 2 2 8264.48 16529.00 **100 mm dia Nos 2 2 2 3552.64 7105.00 **Domm dia Nos 2 2 2 3552.64 7105.00 **Domm dia Mir 2 10 20 5776.96 115539.00		Inspection door 0.6*0.6	Nos	1				1	1787.00	1787.00
Aluminium ladder Rmt 1 4.25 4.25 2609.00 11088.00 Providing 2 coats of snowcem painting over one coat of primer including scrapping the exposed faces, removing loose plastering removal of vegetations, fungus, cleaning the surface, replastering wherever required in C.M 1:3 to the required shape with necessary scaffolding & curing etc. (Including cost of materials) Schedule Of Rates PRE,Mysore Circle 2012-13 (Page No.31 Item No.4.14) Side wall out side sqm 3.142 7.50 5.05 119.00 Top dome sqm 6.284 6.625 1.000 41.63 Deductions Opening sqm -0.785 0.60 0.60 -0.28 Inspection door sqm -1 0.60 0.60 -0.36 159.99 189.00 30239.00 11 Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.40 Item No.III.1.14) a CI Puddle Flanges 200 mm dia Nos 2 2 2 8264.48 16529.00 100 mm dia Nos 2 2 3552.64 7105.00 b CI double flanged pipes 200 mm dia Mtr 2 10 20 5776.96 115539.00	9	mm (approx.) "C" Section x 3.0 mr rungs at 250 mm C/C ladder fiix necessary 25mm dia., G.I. shutters lhe Tank walls to prevent bucklii	m of ladder and and and and and and and and and and	side chanr ngle of 70 sary G.I. fa	nels in to 2 degrees asteners for	5mm dia flu to horizonta bracing the	ital pipe for al including a ladders to			
Providing 2 coats of snowcem painting over one coat of primer including scrapping the exposed faces, removing loose plastering removal of vegetations, fungus, cleaning the surface, replastering wherever required in C.M 1:3 to the required shape with necessary scaffolding & curing etc. (Including cost of materials) Schedule Of Rates PRE,Mysore Circle 2012-13 (Page No.31 Item No.4.14) Side wall out side sqm 3.142 7.50 5.05 119.00 Top dome sqm 6.284 6.625 1.000 41.63 Deductions Opening sqm -0.785 0.60 0.60 -0.28 Inspection door sqm -1 0.60 0.60 -0.36 159.99 189.00 30239.00 11 Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.40 Item No.III.1.14) a CI Puddle Flanges 200 mm dia Nos 2 2 8264.48 16529.00 100 mm dia Nos 2 2 3552.64 7105.00 b CI double flanged pipes 200 mm dia Mlr 2 10 20 5776.96 115539.00		Schedule Of Rates PRE,Myson	re Circle 20)12-13 (F	Page No.2	9 Item No.	4.6 b)			
exposed faces, removing loose plastering removal of vegetations, fungus, cleaning the surface, replastering wherever required in C.M 1:3 to the required shape with necessary scaffolding & curing etc. (Including cost of materials) Schedule Of Rates PRE,Mysore Circle 2012-13 (Page No.31 Item No.4.14) Side wall out side sqm 3.142 7.50 5.05 119.00 Top dome sqm 6.284 6.625 1.000 41.63 Deductions Opening sqm -0.785 0.60 0.60 -0.28 Inspection door sqm -1 0.60 0.60 -0.36 Inspection door sqm -1 0.60 0.60 -0.36 Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.40 Item No.III.1.14) a CI Puddle Flanges 200 mm dia Nos 2 2 2 8264.48 16529.00 100 mm dia Nos 2 2 3552.64 7105.00 b CI double flanged pipes 200 mm dia Mtr 2 10 20 5776.96 115539.00		Aluminium ladder	Rmt	1	4.25			4.25	2609.00	11088.00
Side wall out side	10	exposed faces, removing loose p surface, replastering wherever req	lastering rer uired in C.N	moval of volume 1:3 to the	vegetations	fungus, cl	eaning the			
Top dome sqm 6.284 6.625 1.000 41.63 Deductions Opening sqm -0.785 0.60 0.60 -0.28 Inspection door sqm -1 0.60 0.60 -0.36 159.99 189.00 30239.00 Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.40 Item No.III.1.14) a CI Puddle Flanges 200 mm dia Nos 2 2 8264.48 16529.00 100 mm dia Nos 2 2 3552.64 7105.00 b CI double flanged pipes 200 mm dia Mtr 2 10 20 5776.96 115539.00		Schedule Of Rates PRE,Myson	re Circle 20)12-13 (F	Page No.3	1 Item No.	4.14)			
Deductions		Side wall out side	sqm	3.142	7.50		5.05	119.00		
Copening		•	sqm	6.284	6.625	1.000		41.63		
Inspection door sqm -1 0.60 0.60 -0.36 159.99 189.00 30239.00				0.705	0.00	0.00		0.00		
Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.40 Item No.III.1.14) a CI Puddle Flanges 200 mm dia Nos 2 2 8264.48 16529.00 100 mm dia Nos 2 2 3552.64 7105.00 b CI double flanged pipes 200 mm dia Mtr 2 10 20 5776.96 115539.00		· -	•							
in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.40 Item No.III.1.14) a CI Puddle Flanges 200 mm dia Nos 2 2 2 8264.48 16529.00 100 mm dia Nos 2 2 3552.64 7105.00 b CI double flanged pipes 200 mm dia Mtr 2 10 20 5776.96 115539.00		inspection door	Sqiii	-1	0.00	0.00			189.00	30239.00
200 mm dia Nos 2 2 8264.48 16529.00 100 mm dia Nos 2 2 3552.64 7105.00 b CI double flanged pipes 200 mm dia Mtr 2 10 20 5776.96 115539.00	11	in position for R.C.C. walls includin and lift etc., complete. Schedule Of Rates KUWS & D	g hoisting ar	nd convey	ing them to	work spot v	with all lead			*
100 mm dia Nos 2 2 3552.64 7105.00 b CI double flanged pipes 200 mm dia Mtr 2 10 20 5776.96 115539.00	а	CI Puddle Flanges								
b CI double flanged pipes 200 mm dia Mtr 2 10 20 5776.96 115539.00		200 mm dia	Nos	2				2	8264.48	16529.00
CI double flanged pipes 200 mm dia Mtr 2 10 20 5776.96 115539.00		100 mm dia	Nos	2				2	3552.64	7105.00
	b	CI double flanged pipes								
100 mm dia Mtr 2 10 20 2686.88 53738.00		200 mm dia	Mtr	2	10			20	5776.96	115539.00
		100 mm dia	Mtr	2	10			20	2686.88	53738.00

Supply and Delivery of resilient seated soft sealing Sluice Valves with body, bonnet of Ductile iron of grade GGG50, wedge fully rubber lined with EPDM and Seals of NBR and the valves should be of vaccum tight and 100% leak proof with face dimensions as per BS 5163-89/IS 14846-2000/ DIN 3202 F4/F5. The steam Sealing Should be with toroidal sealing rings (minimum 2 "O" rings). All the valves Shall be supplied with suitable size galvanized bolts and nuts of required numbers as per relevant IS PN 16 Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.18 Item No.II.2.10.2) 200 mm dia	Amount.	Rate	Qty	D	В	L	No.	Unit	Description of works.	SI. No.
200 mm dia				f NBR and as per BS ith toroidal iitable size	nd Seals of dimensions a buld be with sed with suited	th EPDM ar f with face of Sealing Sho all be suppli vant IS PN 1	er lined wi leak proo e steam alves Sha s per relev	fully rubbe and 100% 4/F5,. Th All the v umbers as	ouctile iron of grade GGG50, wedge ne valves should be of vaccum tight 163-89/IS 14846-2000/ DIN 3202 ealing rings (minimum 2 "O" rings alvanized bolts and nuts of required schedule Of Rates KUWS & DB	Di th 5° se ga
100 mm dia Each 1 1.00 12138.56 13 Providing & Constructing SSM Valve Chamber (as per Typical estimate enclosed) Nos 3 3 24000.00 14 Rounding off		20024.24	0.00				0	Cash	·	
Providing & Constructing SSM Valve Chamber (as per Typical estimate enclosed) Nos 3 3 24000.00 Rounding off	67384.00						2			
Nos 3 3 24000.00 14 Rounding off	12139.00	12138.56	1.00				1	Each	00 mm dia	10
14 Rounding off				ed)	ate enclose	oical estima	ıs per Ty _l	hamber (a	roviding & Constructing SSM Valve	13 Pi
	72000.00	24000.00	3				3	Nos		
	967.00								Counding off	14 R
		_								
Total	1075000.00	Total				1				

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SUB ESTIMATE: PROVIDING FENCING TO MBT

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Earth work excavation for foundation exceeding 50 mtrs and with a lift up danger lighting etc., complete By Mar	to 1.50 mt	rs. Includ						
	Schedule Of Rates PRE, Mysore	Circle 20	12-13 (Page No.1	Item No.1	.1)			
	a) In Hard Soil			_		•			
	For Fencing	Cum	1	80.00	0.60	0.55	26.400		
	for Gate Column	Cum	4	0.90	0.90	1.00	3.240		
							29.640	171.00	5068.00
2	Providing and laying granite or trap of size jelly for foundation laid in 15 cm mixing, curing etc. complete as per	thick layer	s and we	ell compacted	d including				
	Schedule Of Rates PRE, Mysore	Circle 20	12-13 (Page No.6	Item No.2	2.2)		14	
	For Fencing	Cum	1	80.00	0.60	0.10	4.800		
	for Gate Column	Cum	4	0.90	0.90	0.10	0.324		
							5.124	3984.00	20414.00
3	KSRB 4-6.1 : Providing and removing removal of form work for foundation including cost of all materials, labour 4.6.2	ons, footing	gs, base	s of column	ns for mas	s concrete			
	Schedule Of Rates PWD, Mysore	e Circle 20	016-17 (Page No.1	5 Item No	.4.28)		4	
	for Gate Column	Sqm	4	3.00		0.45	5.40	231.00	1247.00
4	KSRB 4.2.2: Providing and laying in with OPC cement @ 320kgs, with aggregates @0.878cum and fline a confirming to IS9103-1999 Reaffirm exceeding 15 cms thick, vibrated for roof slabs, staircase, lintels, retaining attached plasters, columns, piers, a lacing courses, parapets, coping, be including cost of all materials, lab specifications. Specification No. KBS	20mm and aggregates ed-2008, mall works in g walls, retabutments, d blocks, a our, HOM	d down s @ 0.459 nachline i foundati urn walls pillars, p nchor blo	size graded 9cum, with semixed, concion plinth and s, walls (any posts, struts, pocks, plain w	granite me superplastis rete laid in d ground flo thickness buttresses indow cills,	etal coarse siser @3lts layers not for level for including s, string or fillets etc.,			
	Schedule Of Rates PWD,Mysore	e Circle 20	016-17 (Page No.1	3				
	for Gate Column	Cum	4	0.75	0.75	0.45	1.01	6011.00	6071.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
5	KSRB 4-6.5 : Providing and removin columns, pillars, piers, abutments, poincluding cost of all materials, labour 4.6.2	st and str	uts, squa	are / rectang	ular / polyg	on in plan			
	Schedule Of Rates PWD, Mysore	Circle 20)16-17 (Page No.16	item No.	4.32)			
	for Gate Column	Sqm	4	0.92		2.10	7.73	366.00	2829.00
6	KSRB 4.2.2: Providing and laying in powith OPC cement @ 320kgs, with 2 aggregates @0.878cum and fline aggregates @0.878cum and fline aggregates in IS9103-1999 Reaffirmed exceeding 15 cms thick, vibrated for a roof slabs, staircase, lintels, retaining attached plasters, columns, piers, at lacing courses, parapets, coping, bed including cost of all materials, labo specifications. Specification No. KBS 4	20mm and gregates d-2008, m Il works in walls, ret butments, blocks, a ur, HOM	d down s @ 0.459 nachline foundati urn walls pillars, p nchor blo	size graded 9cum, with s mixed, concr on plinth and s, walls (any posts, struts, pocks, plain wi	granite me uperplastisi ete laid in ground floot thickness buttresses ndow cills,	tal coarse iser @3lts layers not or level for) including , string or fillets etc.,			
	Schedule Of Rates PWD,Mysore Item No.4.11)	Circle 20)16-17 (Page No.13	3				
	for Gate Column	Cum	4	0.23	0.23	2.10	0.44	6011.00	2644.00
7	Providing and constructing granite or masonry with CM 1:6 proportion with curing etc., complete as per specification	bond sto							
	Schedule Of Rates PRE, Mysore	Circle 20	12-13 (Page No.6	tem No.2.	3)			
		Cum	1	80.00	0.45	0.45	16.200 16.200	2291.00	37114.00
8	Providing and laying granite or trap or using 20 mm and down size jelly inclucuring and smooth finished for expose necessary centering, form work etc., for any other such work.	ding mach ed faces w	nline mix vith CM 1	ing, laying , v :3 for tap pla	ibrating, ta ster finishe	ampering , d and with			
	Schedule Of Rates PRE, Mysore	Circle 20	12-13 (Page No.7	tem No.2.	7)			
	Coping	Cum	1	80.00	0.45	0.075	2.700	4676.00	12625.00
9	Providing and fabricating TMT reinfinooking, lapping and / or welding with binding wire of approved quality and gothe adjoining members wherever necessary per design specification and direction	herever r guage incl essary incl	equired, _l uding co: luding all	olacing in post st of binding laps and wa	sition and wire and an stages ect.	tying with achoring to complete			
	Schedule Of Rates PRE,Mysore (Circle 20	12-13 (Page No.VI	ll Item No.	.79 &			
	Raft & Column	Kg		0.44		120.00	52.80 52.80		
							0.05	56697.50	2994.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
10	CHAIN LINK FENCING Supplying and fixing M.S. Rectangula welded together and fixed in CC (1:2:4 length 25 cms. Including cost of a necessary, nicely finishing the welded Englineer - in- charge of the work and over one coat of shop painting (excluded)) WITH 2 II materia joints with including	NOS 16m als cutting all lead li providing	nm dia M.S g, bending fts and as p l 2 coats of	hold fast roo scaffolding per the directi approved qu	ds each of wherever ons of the			
	Schedule Of Rates PWD,Mysore	Circle 2	016-17 (Page No.2	272 Item No	0.37.2)			
		Rmt	37	2.15			79.55	819.00	65151.00
11	Providing chain link fencing 50mm siz poles and fixed with suitable bolts & block pipe at top and bottom as require and as per the directions of the Engline quality paint over one coat of shop paint	nuts, the ed includi eer-in-cha	free ends	shall be v all materia	velded to the s, labour, lea	pole and and lifts			
	Schedule Of Rates PWD, Mysore	Circle 2	016-17 (Page No.2	272 Item No	.37.3)			
		Sqm	37	1.95		1.50	108.23	659.00	71324.00
12	Providing and fixing M.S. Block pipe of the bends, cutting the pipe, and fix rectangular poles) and spot welding the materials wastage in cutting, and scaldirected by the Englineer-in-charge of quality paint over one coat of shop pair	king pipe ne chain li ffolding w work etc	in betwe ink with M vherever r	en the two	o verticle po pe including with all lead	oles (M.S. cost of all and lift as			
	Schedule Of Rates PWD,Mysore	Circle 2	016-17 (Page No.2	272 Item No	.37.4)			
			37 x 2						
	Bottom & Top	Rmt	74	2.00			148.00	324.00	47952.00
13	Providing and fixing M.S. Gate as perguage M.S. hollow pipe frame work be 35mm x 6mm and 16 x 16mm Square two halves and 40mmx6mm M.S. flats are provided at alternate vertical mensions steel surface should be thoroughly cle (shop paint) etc., complete. The work items of work, hire charges for wellocharges, with lead and lift, loading specification.	ent to orna rods for for horizon bers ass aned free includes ling, cutti	amental sh verticals a ontal mem hown in th of rust an cost of al ng and gr	nape as sho alternatively ber and at the drawing ad painted v Il materials, rinding equ	own in the dra spaced at 4d the top cast in etc., comple vith anti corro labour charg ipment, and	awing and cms c/c in ron spikes te. All the osive paint ges for all electricity			
	Schedule Of Rates PWD,Mysore	Circle 2	016-17 (Page No.	12 Item No.	7.37)			
	Front Gate	Sqm	2	3.00		1.50	9.00	2934.00	26406.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
14	Providing Locking arrangements.	-							
	Schedule Of Rates PWD, Mysor	e Circle 2	016-17 (Page No.	XIV Item N	o.0220)			
		Each	2				2.00	650.00	1300.00
	Miscellaneous and rounding charges	8							861.00
		gu		/			TOTAL		304000.00

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರೆ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

SUB ESTIMATE: PROVIDING FENCING TO ZBT

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
1	Earth work excavation for foundation exceeding 50 mtrs and with a lift up danger lighting etc., complete By Mar	to 1.50 mt	rs. Includ						
	Schedule Of Rates PRE, Mysore	Circle 20	12-13 (Page No.1	Item No.1	.1)			
	a) In Hard Soil								
	For Fencing	Cum	1	40.00	0.60	0.55	13.200		
	for Gate Column	Cum	4	0.90	0.90	1.00	3.240 16.440	171.00	2811.00
2	Providing and laying granite or trap of size jelly for foundation laid in 15 cm mixing, curing etc. complete as per	thick layer	s and we	ell compacted	l including				
	Schedule Of Rates PRE,Mysore	Circle 20	12-13 (Page No.6	Item No.2	.2)			
	For Fencing	Cum	1	40.00	0.60	0.10	2.400		
	for Gate Column	Cum	4	0.90	0.90	0.10	0.324		
							2.724	3984.00	10852.00
3	KSRB 4-6.1 : Providing and removi removal of form work for foundation including cost of all materials, labour 4.6.2	ons, footin	gs, base	s of column	s for mas	s concrete			
	Schedule Of Rates PWD, Mysore	e Circle 2	016-17 (Page No.1	5 Item No	.4.28)			
	for Gate Column	Sqm	4	3.00		0.45	5.40	231.00	1247.00
4	KSRB 4.2.2: Providing and laying in with OPC cement @ 320kgs, with aggregates @0.878cum and fline a confirming to IS9103-1999 Reaffirm exceeding 15 cms thick, vibrated for roof slabs, staircase, lintels, retainin attached plasters, columns, piers, a lacing courses, parapets, coping, be including cost of all materials, lab specifications. Specification No. KBS	20mm and aggregates ed-2008, in all works in g walls, reabutments, d blocks, a bour, HOM	d down : @ 0.45t nachline n foundati turn walls pillars, p	size graded 9cum, with s mixed, conc ion plinth and s, walls (any posts, struts, ocks, plain w	granite me superplastis rete laid in d ground flo thickness buttresses indow cills,	etal coarse siser @3lts layers not for level for including s, string or fillets etc.,			
	Schedule Of Rates PWD,Mysore Item No.4.11)	e Circle 2	016-17 (Page No.1	3				
	for Gate Column	Cum	4	0.75	0.75	0.45	1.01	6011.00	6071.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
5	KSRB 4-6.5 : Providing and removing columns, pillars, piers, abutments, poincluding cost of all materials, labour 4.6.2	ost and str	uts, squa	are / rectangi	ular / polyg	on in plan			
	Schedule Of Rates PWD, Mysore	Circle 20)16-17 (Page No.16	Item No	.4.32)			
	for Gate Column	Sqm	4	0.92		2.10	7.73	366.00	2829.00
6	KSRB 4.2.2: Providing and laying in p with OPC cement @ 320kgs, with aggregates @0.878cum and fline aggregates @0.878cum and fline aggregates @15 cms thick, vibrated for a roof slabs, staircase, lintels, retaining attached plasters, columns, piers, allacing courses, parapets, coping, bed including cost of all materials, labor specifications. Specification No. KBS 4	20mm and ggregates d-2008, mall works in walls, ret butments, I blocks, a bur, HOM	d down s @ 0.459 nachline foundati urn walls pillars, p nchor blo	size graded 9cum, with s mixed, concr on plinth and s, walls (any posts, struts, pocks, plain wi	granite me uperplastis ete laid in ground flo thickness buttresses ndow cills,	etal coarse siser @3lts layers not or level for) including s, string or fillets etc.,			
	Schedule Of Rates PWD,Mysore Item No.4.11)	Circle 20)16-17 (Page No.13	3				
	for Gate Column	Cum	4	0.23	0.23	2.10	0.44	6011.00	2644.00
7	Providing and constructing granite o masonry with CM 1:6 proportion with curing etc., complete as per specificat	bond sto							
	Schedule Of Rates PRE, Mysore	Circle 20	12-13 (Page No.6 I	tem No.2	.3)			
		Cum	1	40.00	0.45	0.45	8.100 8.100	2291.00	18557.00
8	Providing and laying granite or trap or using 20 mm and down size jelly inclucuring and smooth finished for exposinecessary centering, form work etc., fany other such work.	uding macl	nline mix vith CM 1	ing, laying , v :3 for tap pla	ibrating, t ster finishe	ampering, and with			
	Schedule Of Rates PRE,Mysore	Circle 20	12-13 (Page No 7 i	tem No 2	7)			
	Coping	Cum	1	40.00	0.45	0.075	1.350	4676.00	6313.00
9	Providing and fabricating TMT rein hooking, lapping and / or welding with binding wire of approved quality and the adjoining members wherever nec as per design specification and direction	wherever r guage incl essary inc	equired, uding co luding all	placing in po st of binding laps and wa	sition and wire and a stages ect	tying with nchoring to ., complete			
	Schedule Of Rates PRE, Mysore 2.11)	Circle 20	12-13 (Page No.VI	ll Item No	.79 &			
	Raft & Column	Kg		0.44		120.00	52.80 52.80		
							0.05	56697.50	2994.00

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
10	CHAIN LINK FENCING Supplying and fixing M.S. Rectangular welded together and fixed in CC (1:2:4 length 25 cms. Including cost of a necessary, nicely finishing the welded Englineer - in- charge of the work and over one coat of shop painting (excluded)	l) WITH 2 all materia joints with including	NOS 16n als cutting all lead li providing	nm dia M.S. g, bending ifts and as pe g 2 coats of	hold fast ro scaffolding er the direct approved co	ods each of wherever ctions of the			
	Schedule Of Rates PWD, Mysore	Circle 20	016-17 (Page No.2	72 Item N	o.37.2)			
		Rmt	17	2.15			36.55	819.00	29934.00
11	Providing chain link fencing 50mm siz poles and fixed with suitable bolts & block pipe at top and bottom as requir and as per the directions of the Englin quality paint over one coat of shop pain	nuts, the ed includir eer-in-cha	free ends	shall be waterials	eided to th s, labour, le	e pole and ead and lifts			
	Schedule Of Rates PWD, Mysore	Circle 20	016-17 (Page No.2	72 Item N	o.37.3)			
		Sqm	17	1.95		1.50	49.73	659.00	32772.00
12	Providing and fixing M.S. Block pipe of the bends, cutting the pipe, and fix rectangular poles) and spot welding the materials wastage in cutting, and scaldirected by the Englineer-in-charge of quality paint over one coat of shop pair	king pipe ne chain li iffolding w work etc.	in betwe nk with M herever r	en the two I.S. block pip necessary w	verticle p e including ith all lead	ooles (M.S. g cost of all and lift as			
	Schedule Of Rates PWD,Mysore	Circle 20	016-17 (Page No.2	72 Item N	o.37.4)			
	¥		17 x 2						
	Bottom & Top	Rmt	34	2.00			68.00	324.00	22032.00
13	Providing and fixing M.S. Gate as perguage M.S. hollow pipe frame work be 35mm x 6mm and 16 x 16mm Square two halves and 40mmx6mm M.S. flats are provided at alternate vertical mensteel surface should be thoroughly cle (shop paint) etc., complete. The work items of work, hire charges for weld charges, with lead and lift, loading specification.	ent to orna rods for v for horizo nbers assi aned free includes ling, cuttir	mental shad werticals a contal mem hown in the of rust and cost of all and grand grand shade sha	nape as showalternatively and at the drawing of the drawing of the drawing of the drawing and painted with materials, winding equipage.	wn in the dispaced at 4 the top cast etc., complete anti correlations characteristics and the top cast etc.	rawing and 4cms c/c in iron spikes ete. All the rosive paint rges for all d electricity			
	Schedule Of Rates PWD,Mysore	Circle 20)16-17 (Page No.4	2 Item No	.7.37)			
		Sqm	2	3.00		1.5	9.00	2934.00	26406.00

	u.i.a o Divisioni			IVICI	naucvpura	,CHIKKAHK	ariarialii,rv.sii	ellynaill and	onier to village
SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount.
14	Providing Locking arrangements.								
	Schedule Of Rates PWD, Mysor	e Circle 2	016-17 (Page No.)	KIV Item N	o.0220)			
		Each	2				2.00	650.00	1300.00
	Miscellaneous and rounding charges	5							238.00
	0.00	qui	w	/			TOTAL		167000.00
	Gallanjak -	Acce			-6				

SUB ESTIMATE: GRAVITY DISTRIBUTION MAIN FROM MBT

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount				
1	Cutting of road surface for pipelline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the following classification.												
	Schedule Of Rates PRE,Mysore	Circle 20	12-13 (Page No.3 It	em No.1	.7)							
	Cutting Macadam road surface	cum	1	1990.00	0.75	0.15	223.88	174.00	38955.00				
	Schedule Of Rates PRE,Mysore	Circle 20	12-13 (Page No.3 It	em No.1	.7.1)							
	Cutting Asphalting surface road	cum	1	5300.00	0.75	0.20	795.00	225.00	178875.00				
	Schedule Of Rates PRE,Mysore	Circle 20	12-13 (Page No.3 It	em No.1.	.7.2)							
	Cutting cement concret road surface	cum	1	665.00	0.75	0.20	99.75	451.00	44987.00				
2	Providing, laying, spreading and comp bound macadam specification includir rolling with three wheel 80-100kN sta applying and brooming, stone screet coarse aggregate, watering and comp Technical Specification Clause 405. By	ng spread tic roller in ning/bindir pacting to	ing in uni n stages ng materi the requi	form thickness to proper gra als to fillup th	s, hand pa de and ca ne intersti	acking, amber, ces of							
	Schedule Of Rates PRE, Mysuru	Circle II.	.2.5.1.6 (Page No.25	Item No	.4.7 - 3	- A)						
		cum	1	1990.00	0.75	0.15	223.88	2143.00	479775.00				
3	Providing, laying and rolling of oper composed of 13.2 mm to 5.6 mm aggremulsion to required line, grade and layerepared base, including mixing in a s 80-100 kN static roller capacity, finish seal coat .By Mechanical Means (Bitur	regates ei evel to se uitable pla ed to requ	ther using erve as w ant, laying uired leve	penetration gearing course and rolling wi	rade bitur on a prev th a three	nen or viously wheel							
	Schedule Of Rates PRE, Mysuru	Circle II.	.2.5.1.6	Page No.32	Item No	.5.11 -0	ase-2 -Typ	e-BII)					
		cum	1	5300.00	0.75	0.20	795.00	104.00	82680.00				

SI. No	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount
4	Providing and constructing un-reinforal as per design, over a prepared subset of clause 1501.2.2 M30 (Grade), comaximum size of coarse aggregate not less than 0.2 cum capacity and design, laid in approved fixed side formicron thick polythene film, wedges, softawing), spreading the concrete with and plate vibrators and finished in coprimer, sealant, curing of concrete softade as per drawing and technical softade in the complete. As per the directions of the complete.	base, with oarse and ot exceedi appropria formwork steel plate a shovels, ntinuous of alabs for 1 pecification eyance of	43 grade I fine aging 25 mate weig (steel chas including rakes, copperation 4-days, and clause fall mate	de cement or all gregates conform, mixed in a character using annel, laying ang levelling the compacted using including constant water finisher 1501 with all legislas, labour, e	ny other t rming to I oncrete m g approve and fixing formwork g needle, struction j ning to line ead, lifts, I	ype as IS:383, nixer of ed mix of 125 as per screed oints, , es and oading			
	PRE Rural Roads Mysore Circle	2018-19	, I No 64	4, Pg No 20					
		cum	1	665.00	0.75	0.20	99.75	6777.00	676006.00
	Earth work in excavation for water supits or trenches (Upto 601mm treespecification including setting barricading, danger lighting, bracing, redressing of sides and bottom, backfilliutilising the remaining earth locally Mechanical Means Schedule Of Rates PRE, Mysore	nch width g out emoval of ing the exc y of the	n) as p constr f stumps cavation work in	per drawing ruction of and other del earth to the ext the following	and tea shoring,s leterious of ent require clasificati	chnical trutting matter, ed and ion by			
	75 mm dia pipe	cum	1	19850.92	0.60	0.98	11612.79		
	90 mm dia pipe	cum	1	5451.71	0.69	0.90	3724.06		
	110 mm dia pipe	cum	1	7113.79	0.71	1.01	5101.30		
	125 mm dia pipe	cum	1	986.61	0.73	1.03	733.18		
	140 mm dia pipe	cum	1	4347.00	0.74	1.04	3345.45		
	160 mm dia pipe	cum	1	4544.10	0.76	1.06	3660.73		
	180 mm dia pipe	cum	1	23945.85	0.78	1.08	20171.98		
						-	48349.49		
i	In Ordinary soil	cum	48	3349.49	x	45%	21757.27	45.00	979077.00
ii	In Hard soil	cum	48	3349.49	x	50%	24174.74	45.00	1087863.00
iii	In Ordinary rock without blasting	cum	48	3349.49	x	5%	2417.47	60.00	145048.00
6	Providing murrum or sand bedding for by punners etc. complete with all lead	l and lift, (i	n black o	cotton soil and r	ock reach	es).			¥

183.00

0.60 0.10

10.98

Schedule Of Rates PRE, Mysore Circle 2012-13 (Page No.4 Item No.1.9)

cum

1

From MBT to JN-C1

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount
F	rom JN-C1 to JN-C2	cum	1	9434.00	0.60	0.10	566.04	·.	
F	rom JN-C2 to JN-C3	cum	1	3786.00	0.60	0.10	227.16		
F	rom JN-C3 to Hampapura	cum	1	15.00	0.60	0.10	0.90		
F	rom JN-C3 to Huralikyathanahalli	cum	1	2648.00	0.60	0.10	158.88		
F	rom JN-C2 to JN-C4	cum	1	3730.00	0.60	0.10	223.80		
F	rom JN-C4 to JN-C5	cum	1	200.00	0.60	0.10	12.00		
	rom JN-C5 to Chikkanakanahalli DHT1	cum	1	13.00	0.60	0.10	0.78		
	rom JN-C5 to Chikkanakanahalli DHT2	cum	1	51.00	0.60	0.10	3.06		
F	rom JN-C4 to JN-C6	cum	1	510.00	0.60	0.10	30.60		
	rom JN-C6 to Chikkanakanahalli DHT3	cum	1	16.00	0.60	0.10	0.96		
F	From JN-C6 to JN-C7	cum	1	941.00	0.60	0.10	56.46		
F	rom JN-C7 to Sugganahalli	cum	1	85.00	0.60	0.10	5.10		
	From JN-C7 to JN-C8	cum	1	1616.00	0.60	0.10	96.96		
F	rom JN-C8 to Bonthagahalli	cum	1	481.00	0.60	0.10	28.86		
	From JN-C8 to Kokkarehundi	cum	1	224.00	0.60	0.10	13.44		
F	From ZBT to JN-M1	cum	1	4544.10	0.60	0.10	272.65		
F	From JN-M1 to Krishnapura	cum	1	3252.00	0.60	0.10	195.12		
	From JN-M1 to JN-M2	cum	1	617.00	0.60	0.10	37.02		
F	From JN-M2 to JN-M3	cum	1	19.00	0.60	0.10	1.14		
F	From JN-M3 to Mahadevapura OHT1	cum	1	7.00	0.60	0.10	0.42		
F	From JN-M3 to Mahadevapura OHT2	cum	1	22.00	0.60	0.10	1.32		
F	From JN-M2 to JN-M4	cum	1	721.00	0.60	0.10	43.26		
F	From JN-M4 to Mahadevapura OHT3	cum	1	223.00	0.60	0.10	13.38		
F	From JN-M4 to JN-M5	cum	1	129.00	0.60	0.10	7.74		
F	From JN-M5 to JN-M6	cum	1	3201.00	0.60	0.10	192.06		
F	rom JN-M6 to Channahalli	cum	1	562.00	0.60	0.10	33.72		
F	From JN-M6 to Bidarahalli	cum	1	1572.00	0.60	0.10	94.32		
F	From JN-M5 to JN-M7	cum	1 =	2286.00	0.60	0.10	137.16		
F	From JN-M7 to Taripura	cum	1	241.00	0.60	0.10	14.46		
F	From JN-M7 to Kemmannupura	cum	1	2650.00	0.60	0.10	159.00		
F	From MBT to JN-K1	cum	1	14328.85	0.60	0.10	859.73		
F	From JN-K1 to K Shettyhalli OHT1	cum	1	161.00	0.60	0.10	9.66		
F	From JN-K1 to JN-K2	cum	1	104.03	0.60	0.10	6.24		
F	From JN-K2 to K Shettyhalli OHT2	cum	1	31.65	0.60	0.10	1.90		
F	From JN-K2 to JN-K3	cum	1	161.58	0.60	0.10	9.69		
F	From JN-K3 to JN-K4	cum	1	861.92	0.60	0.10	51.72		
F	From JN-K4 to Gowripura	cum	1	31.69	0.60	0.10	1.90		
F	From JN-K4 to Garudana Ukkada	cum	1	598.96	0.60	0.10	35.94		
F	From JN-K3 to JN-K5	cum	1	2332.79	0.60	0.10	139.97		
	From JN-K5 to M Shettyhalli OHT1	cum	1	17.29	0.60	0.10	1.04		
F	From JN-K5 to JN-K6	cum	1	49.71	0.60	0.10	2.98		
F	From JN-K6 to M Shettyhalli OHT2	cum	1	11.40	0.60	0.10	0.68		
F	From JN-K6 to JN-K7	cum	1	1251.58	0.60	0.10	75.09		
F	From JN-K7 to Sabbanakuppe	cum	1	12.42	0.60	0.10	0.75		
F	From JN-K7 to JN-K8	cum	1	945.45	0.60	0.10	56.73		

SI. No	. Description of works.	Unit	No.	L_	В	D	Qty	Rate	Amount
	From JN-K8 to Mallegowdanakoppalu	cum	1	270.05	0.60	0.10	16.20		
	From JN-K8 to Chinnenahalli	cum	1	1090.52	0.60	0.10	65.43		
							3974.40	78.00	310003.00

- Supplying HDPE pipes conforming to IS 4984:1995 with latest amendments and conveying to work site including loading and unloading at both destination and rolling, lowering into trenches, laying true to lline and jointing of pipes and specials by electrofusion welding, including encasing the pipe around to a depth not less than 15cms with soft gravel or selected earth available from the excavation etc., complete giving hydraulic test as per relevant ISS with all lead and lift including testing and commissioning. The rate is exclusive of required specials and fittings etc., complete (Contractor will make his own arrangement for procuring water for testing) Note: a) PE-80 Rates are based on resin rate of Rs.1,04,200.00 per MT.
 - b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT.

Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.34 Item No.II.2.50.2)

HDPE, PN6						
75 mm Dia	Rmtr	1	6298.47	6298.47	181.44	1142794.22
110 mm Dia	Rmtr	1	129.00	129.00	322.56	41610.24
125 mm Dia	Rmtr	1	721.00	721.00	400.96	289092.16
HDPE, PN8						
75 mm Dia	Rmtr	1	12497.89	12497.89	209.44	2617557.45
90 mm Dia	Rmtr	1	1665.71	1665.71	278.88	464532.09
110 mm Dia	Rmtr	1	3201.00	3201.00	388.64	1244036.64
140 mm Dia	Rmtr	1	617.00	617.00	609.28	375925.76
180 mm Dia	Rmtr	1	183.00	183.00	935.20	171141.6
HDPE, PN10						
75 mm Dia	Rmtr	1	1054.57	1054.57	238.56	251577.03
90 mm Dia	Rmtr	1	3786.00	3786.00	319.20	1208491.2
110 mm Dia	Rmtr	1	1451.00	1451.00	448.00	650048
125 mm Dia	Rmtr	1	265.61	265.61	561.12	149040.21
160 mm Dia	Rmtr	1	4544.10	4544.10	882.56	4010440.9
HDPE, PN12.5						
110 mm Dia	Rmtr	1	2332.79	2332.79	518.56	1209691.06
140 mm Dia	Rmtr	1	3730.00	3730.00	818.72	3053825.6
HDPE, PN16						
180 mm Dia	Rmtr	1	23762.85	23762.85	1518.72	36089115.55

l. No	. Description of work	s. Unit	No.	L	В	D	Qty	Rate	Amount			
9	Ductile iron of grade GGG50 and the valves should be of v per BS 5163-89/IS 14846-20 toroidal sealing rings (minim	Supply and Delivery of resilient seated soft sealing Sluice Valves with body, bonnet of Ductile iron of grade GGG50, wedge fully rubber lined with EPDM and Seals of NBR and the valves should be of vaccum tight and 100% leak proof with face dimensions as per BS 5163-89/IS 14846-2000/ DIN 3202 F4/F5,. The steam Sealing Should be with toroidal sealing rings (minimum 2 "O" rings). All the valves Shall be supplied with suitable size galvanized bolts and nuts of required numbers as per relevant IS PN 10										
	Schedule Of Rates KUWS Item No.II.2.10.1)	S & DB, Karnatal	ka Board	2018-2019	(Page N	lo.18						
	80 mm dia	Each	43				43.00	9578.24	411864.00			
	100 mm dia	Each	7				7.00	12138.56	84970.00			
	150 mm dia	Each	18				18.00	21240.80	382334.00			
	200 mm dia	Each	31				31.00	33691.84	1044447.00			
		Total	99									
	Ductile iron of grade GGG50											
	and the valves should be of v per BS 5163-89/IS 14846-20 toroidal sealing rings (minim suitable size galvanized bolts Schedule Of Rates KUWS Item No.II.2.10.1)	00/ DIN 3202 F4/F um 2 "O" rings). and nuts of require	5,. The ste All the va d numbers	eam Sealing lves Shall as per rele	g Should b be supplie vant IS PN	e with d with 10						
	per BS 5163-89/IS 14846-20 toroidal sealing rings (minim suitable size galvanized bolts Schedule Of Rates KUWS Item No.II.2.10.1)	00/ DIN 3202 F4/F um 2 "O" rings). and nuts of require 6 & DB, Karnatal	5,. The ste All the va d numbers	eam Sealing lves Shall as per rele	g Should b be supplie vant IS PN	e with d with 10	74	0570 24	CROSES OF			
	per BS 5163-89/IS 14846-20 toroidal sealing rings (minim suitable size galvanized bolts Schedule Of Rates KUWS Item No.II.2.10.1)	00/ DIN 3202 F4/F um 2 "O" rings). and nuts of require 6 & DB, Karnatal	5,. The ste All the va d numbers a Board	eam Sealing lves Shall as per rele	g Should b be supplie vant IS PN	e with d with 10	71 13	9578.24 12128.56				
	per BS 5163-89/IS 14846-20 toroidal sealing rings (minim suitable size galvanized bolts Schedule Of Rates KUWS Item No.II.2.10.1) 80 mm dia 100 mm dia	00/ DIN 3202 F4/F um 2 "O" rings). and nuts of require 6 & DB, Karnatal Each Each	5,. The ste All the va d numbers ka Board 71 13	eam Sealing lves Shall as per rele	g Should b be supplie vant IS PN	e with d with 10	13	12138.56	157801.00			
	per BS 5163-89/IS 14846-20 toroidal sealing rings (minim suitable size galvanized bolts Schedule Of Rates KUWS Item No.II.2.10.1)	00/ DIN 3202 F4/F um 2 "O" rings). and nuts of require 6 & DB, Karnatal	5,. The ste All the va d numbers a Board	eam Sealing lves Shall as per rele	g Should b be supplie vant IS PN	e with d with 10			680055.00 157801.00 21241.00			
11	per BS 5163-89/IS 14846-20 toroidal sealing rings (minim suitable size galvanized bolts Schedule Of Rates KUWS Item No.II.2.10.1) 80 mm dia 100 mm dia 150 mm dia 150 mm dia 150 mm dia 151 mm dia 150 mm dia 150 mm dia 150 mm dia 150 mm dia 150 mm dia 150 mm dia 150 mm dia 150 mm dia 150 mm dia 150 mm dia 150 mm dia	2 "O" rings). and nuts of require 8 & DB, Karnatal Each Each Each Total amber triple function arts such as float, so of HOSTAFLON tions i.e: arge air volumes or ge air Volumes of pressurized air of	71 13 1 85 In tamper body and shell etc all /SSRAL50 In start up.	proof (both cover in du cover bolts)	g Should be be supplied vant IS PN (Page Note: The orifices calle cast its of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles or the orifices called or the orifices called original to the orifices called original to the orifices called original to the orifices called original to the orifices called original to the orifices original to the orifices original to the orifices original to the orifices original to the orifices original to the orifices original to the original to the orifices original to the orifices original to the orifices original to the orifices original to the o	e with d with 10 lo.18 to be ron of alloy/ uld be	13	12138.56	157801.00			
11	per BS 5163-89/IS 14846-20 toroidal sealing rings (minim suitable size galvanized bolts) Schedule Of Rates KUWS Item No.II.2.10.1) 80 mm dia 100 mm dia 150 mm dia 150 mm dia supply and fixing of single chambe grade GGG 50. all internal pass 304 steel , DN 50 float designed for all the three functions. Large orifice for venting of laz. Large orifice for Intake of lar	2 "O" rings). and nuts of require 8 & DB, Karnatal Each Each Each Total amber triple function arts such as float, so of HOSTAFLON tions i.e: arge air volumes or ge air Volumes of pressurized air of	71 13 1 85 In tamper body and shell etc all /SSRAL50 In start up.	proof (both cover in du cover bolts)	g Should be be supplied vant IS PN (Page Note: The orifices calle cast its of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles or the orifices called original calles or the orifices or the orifices called original calles or the orifices or the original calles or the orifices or the original calles or the orifices or the orifices or the original calles or the orifices or the orifices or the orifices or the orifices or the original cal	e with d with 10 lo.18 to be ron of alloy/ uld be	13	12138.56	157801.00			
11	per BS 5163-89/IS 14846-20 toroidal sealing rings (minim suitable size galvanized bolts Schedule Of Rates KUWS Item No.II.2.10.1) 80 mm dia 100 mm dia 150 mm dia 150 mm dia 150 mm dia 151 mm dia 152 mm dia 153 mm dia 154 mm dia 155 mm dia 155 mm dia 155 mm dia 155 mm dia 156 mm dia 157 mm dia 158 mm dia 159 mm dia 150 mm dia 1	2 "O" rings). and nuts of require 8 & DB, Karnatal Each Each Each Total amber triple function arts such as float, so of HOSTAFLON tions i.e: arge air volumes or ge air Volumes of pressurized air of	71 13 1 85 In tamper body and shell etc all /SSRAL50 In start up.	proof (both cover in du cover bolts)	g Should be be supplied vant IS PN (Page Note: The orifices calle cast its of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles of austitical ves Should be supplied to the orifices calles or the orifices called original calles or the orifices or the orifices called original calles or the orifices or the original calles or the orifices or the original calles or the orifices or the orifices or the original calles or the orifices or the orifices or the orifices or the orifices or the original cal	e with d with 10 lo.18 to be ron of alloy/ uld be	13	12138.56	157801.00			

SI. No.	Description of works.	Unit	No.	L	В	D Qty	Rate	Amount		
14	Giving hydraulic test for C.I / R.C.C equal to 2 times the working pressure.				•	sure				
	Schedule Of Rates PRE, Mysor	e Circle 20	12-13 (Page No.1	6 Item No.3.	7)				
	Up to 80 mm	Mtrs	1		19850.92	19850.92	2.00	39702.00		
	80 to 100 mm	Mtrs	1		5451.71	5451.71	2.50	13629.00		
	100 to 150 mm	Mtrs	1		12447.40	12447.40	3.00	37342.00		
	150 to 200 mm	Mtrs	1		28489.95	28489.95	4.00	113960.00		
15	Construction of Thrust block									
	(Sub estimate enclosed)	Nos	130				6000.00	780000.00		
16	Construction of Valve Chamber									
	(Sub estimate enclosed)	Nos	280				24000.00	6720000.00		
17	Providing and laying reinforced cement concrete pipe NP2 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 450mm dia									
	Schedule Of Rates PWD,Myso No.34.7.4)	re Circle 2	016-17 (Page No.:	264 Item					
	450 mm dia pipe 40 Junctions	Rmtr				400.00	1509.00	603600.00		
18	Miscellaneous and rounding charge	es						736.29		
	a. Rellaujnath -	ಯಕ ಕಾಯ - ಕುಡಿಯ	المرادة على المرادة على المرادة على المرادة على المرادة على المرادة على المرادة على المرادة على المرادة على الم	ಮತ್ತು ಸೈ~	· o		Total	69825000.00		
	ಸಹಾ ಗ್ರಾಮಿ	್ರುಕ ಕಾಯ _{ರೀಣ} ಕುಡಿಯ ಉಪ-ವಿಭಾ	ುವ ^{ನೀಯ} ಾಗ. ಶ್ರೀ [©]	30पश्चित्रुं त						

Abstract of Gravity Main

SL. NO.	From	То	Dia	Туре	Length	cv	sc	AV
			Z	ONE-1: Chotta	nahalli MBI	₹		
1	MBT	JN-C1	180	HDPE, PN8	183.00	1	П	1
2	JN-C1	JN-C2	180	HDPE, PN16	9434.00	10		3
3	JN-C2	JN-C3	90	HDPE, PN10	3786.00	4	13	14
4	JN-C3	Hampapura	75	HDPE, PN6	15.00	1	6	7
5	JN-C3	Huralikyathan ahalli	75	HDPE, PN8	2648.00	3	=	1
6	JN-C2	JN-C4	140	HDPE, PN12.5	3730.00	4	5	6
7	JN-C4	JN-C5	75	HDPE, PN8	200.00	1	7	7
8	JN-C5	Chikkanakana halli OHT1	75	HDPE, PN8	13.00	1	1	
9	JN-C5	Chikkanakana halli OHT2	75	HDPE, PN8	51.00	1		
10	JN-C4	JN-C6	110	HDPE, PN10	510.00	1		1
11	JN-C6	Chikkanakana halli OHT3	75	HDPE, PN8	16.00	1	1	2
12	JN-C6	JN-C7	110	HDPE, PN10	941.00	1		
13	JN-C7	Sugganahalli	75	HDPE, PN8	85.00	1	1	1
14	JN-C7	JN-C8	90	HDPE, PN8	1616.00	2	1	1
15	JN-C8	Bonthagahalli	75	HDPE, PN6	481.00	1	3	3
16	JN-C8	Kokkarehundi	75	HDPE, PN6	224.00	1	3	3
17	ZBT	JN-M1	160	HDPE, PN10	4544.10	5	1	1
18	JN-M1	Krishnapura	75	HDPE, PN8	3252.00	4	5	6
19	JN-M1	JN-M2	140	HDPE, PN8	617.00	1	1	
20	JN-M2	JN-M3	75	HDPE, PN6	19.00	1		
21	JN-M3	Mahadevapur a OHT1	75	HDPE, PN6	7.00	1		
22	JN-M3	Mahadevapur a OHT2	75	HDPE, PN6	22.00	1		
23	JN-M2	JN-M4	125	HDPE, PN6	721.00	1	1	1

				manaa	orpara, orma	armananam,	Correctly riam t	and other to
24	JN-M4	Mahadevapur a OHT3	75	HDPE, PN6	223.00	1	1	1
25	JN-M4	JN-M5	110	HDPE, PN6	129.00	1		
26	JN-M5	JN-M6	110	HDPE, PN8	3201.00	4	5	5
27	JN-M6	Channahalli	75	HDPE, PN6	562.00	1	1	2
28	JN-M6	Bidarahalli	75	HDPE, PN6	1572.00	2	5	5
29	JN-M5	JN-M7	75	HDPE, PN8	2286.00	3	2	2
30	JN-M7	Taripura	75	HDPE, PN6	241.00	1	1	1
31	JN-M7	Kemmannupu ra	75	HDPE, PN6	2650.00	3	7	7
32	MBT	JN-K1	180	HDPE, PN16	14328.85	15		1
33	JN-K1	K Shettyhalli OHT1	75	HDPE, PN10	161.00	1		
34	JN-K1	JN-K2	125	HDPE, PN10	104.03	1	1	
35	JN-K2	K Shettyhalli OHT2	75	HDPE, PN10	31.65	1		1
36	JN-K2	JN-K3	125	HDPE, PN10	161.58	1		
37	JN-K3	JN-K4	75	HDPE, PN10	861.92	1	1	1
38	JN-K4	Gowripura	75	HDPE, PN8	31.69	1	2	2
39	JN-K4	Garudana Ukkada	75	HDPE, PN8	598.96	1		
40	JN-K3	JN-K5	110	HDPE, PN12.5	2332.79	3	-	
41	JN-K5	M Shettyhalli OHT1	75	HDPE, PN8	17.29	1		
42	JN-K5	JN-K6	90	HDPE, PN8	49.71	1	2	3
43	JN-K6	M Shettyhalli OHT2	75	HDPE, PN8	11.40	1		
44	JN-K6	JN-K7	75	HDPE, PN8	1251.58	2	1	2
45	JN-K7	Sabbanakupp e	75	HDPE, PN6	12.42	1	1	1
46	JN-K7	JN-K8	75	HDPE, PN8	945.45	1	2	2
47	JN-K8	Mallegowdana koppalu	75	HDPE, PN6	270.05	1	2	2
48	JN-K8	Chinnenahalli	75	HDPE, PN8	1090.52	2	2	2
			Total		66239.98			
				-	/			

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SUB ESTIMATE: ANCHOR BLOCKS AND ENCASING PIPE AT ROAD CROSS DRAIN

SI. No	Description of work	Unit	No	L	В	D	Qty	Rate	Amount
1	KSRB 2-23.1 : Earthwork excava sanitary llines and electrical condi- in width, in Ordinary/hard soil not bottom and sides of pits and tre edges of excavation with lead upt specifications. specification. No. K	uits either exceeding enches, si o 50 m. a	in pits of the first tending in the first tending i	or in trenche in depth incl the excavat aking of clod	es 1.5m an luding dres ed soil cle ls complete	d above sing the ear from			_
	Schedule Of Rates PWD, Mys No.2.23.1)	ore Circl	e 2016	-17(Page	No.7 Item	ı			
	,	Cum	500	1.20	0.80	0.90_	432.00 432.00	53.00	22896.00
2	KSRB 4-1.3 : Providing and layin with OPC cement @ 180kgs, with coarse aggregates @0.85cum are machine mixed, concrete laid compacted, in foundation, inclumachinery, curing complete as per Page No.12 Item No.4.3) Schedule Of Rates PWD, Mys. Item No.4.3)	te metal e mixed, ck, well HOM of							
		Cum	500	1.20	0.80	0.10	48.00	4867.00	233616.00
3	KSRB 4-1.5: Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite meta coarse aggregates @0.64cum and fline aggregates @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machline mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machlinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	Schedule Of Rates PWD,Mys Item No.4.5)	ore Circ	ie 2016	-17 (Page	No.12				
		Cum	500	1.00	0.60	0.30	90.00		
		Cum	500	0.80	0.40	2.00 _	320.00	EE40.00	2272222 00
						_	410.00	5542.00	2272220.00

SI.	Description of work	Unit	No		<u> </u>	Otv	Doto	Amarina
No	<u> </u>	Onit	No	 D	U	City	Rate	Amount

4 Providing and fabricating TMT reinforcement including, straightening cutting, bending, hooking, lapping and / or welding wherever required, placing in position and tying with binding wire of approved quality and guage including cost of binding wire and anchoring to the adjoining members wherever necessary including all laps and wastages ect., complete as per design specification and directions (laps and wastages not to be measured and paid)

Schedule Of Rates PRE, Mysore Circle 2012-13 (Page No. VIII Item No. 79 & 2.11)

For Footing	Sqm	0.60 Sqm @	25 Kg/sqm	15.00	
For Anchor block	Sqm	4.80 Sqm @) 10 Kg/cum	48.00	
				63.00	
		500	Or MT	31.50	56697.50 1785971.00

5 Refilling the basement and pipelline trenches with selected available earth from trench excavation including watering, Consolidation in layers of 15 cm thick including disposing of the surplus earth with a lead of 200 meters.

Schedule Of Rates PRE, Mysore Circle 2012-13 (Page No.3 Item No.1.6

Qty of Item N	lo 1		Cum	432.00	
Deduction	for	concrete			
Qty(40%)				<u>-183.20</u>	
				248.80	0.00

Supplying Ductile Iron pipes K-7 Class conforming to IS 8329:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to lline, level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of DI pipes and specials, (excluding cost of specials) with rubber gaskets including cleaning the socket and spigot ends with soap solution and applying soft soap to the spigot and socket ends before insertion of rubber gaskets, jacking and fixing in perfect conditions including cost of soap solution, soft soap, waste etc. and giving necessary hydraulic test to the required pressure as per ISS with all lead and lift including cost of jointing materials. (contractor will make his own arrangements for procuring water for testing). DI Pipe rates are based on the Foundry Grade Pig Iron (Si:2%-2.5%) with WPI of 141.1 as on July-2013

Schedule Of Rates KUWS & DB, Karnataka Board 2018-2019 (Page No.14 Item No.II.2.5.1)

For Encasing

100 mm dia pipe	Mtr	1	345.00	345.00	1018.08 351238.00
150 mm dia pipe	Mtr	1	287.00	287.00	1478.40 424301.00
250 mm dia pipe	Mtr	1	963.00	963.00	2684.64 2585308.00

7 Miscellaneous and rounding charges

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7676000.00

450.00

Koushik Consultant

28. Estimate for SCADA NAME OF WORK: Mahadevapur & other 18 villages

NZ	SI. No	Description	Unit	Rate	Rate	Amount
		Part A: Installation and commissioning of PLC SCADA system as per scope in the tender with 1 Year defect Liability.				
(A		WTP Jackwell Section:				
	H	PLC Panel at Jackwell;	Nos	1	5,03,251.90	5,03,251.90
		Supplying,Installing and succesful Commissioning of Required Automation Accessories for existing PLC Panel at Jackwell.				
		a) PLC with Automatic operation for controlling commands with Reputed make PLC with an operating voltage of 24V DC, with 20 Digital inputs & 12 Digital Outputs.				20
		b)PLC with USB port for programming, Ethernet port configurable for MODBUS TCP IP, programming and PC communication, with add on card for allocated inpute and other analyse signals BS 232 or BS 485 port with life				
		time activated licensed Programming and application software.				
		c) Relay module with 2CO,24 V DC,8 Channel, DIN rail mounting,				•
		d)Selector Switch 2 Position Maintained Command Black				
		e)Selector Switch 3 Position Maintained Command Black				1
		f) Analog to Modbus Converter				•
		g) Power Supply 24 VDC @ 10A (SMPS)				t
		h) Panel with other switchgear Accessories				•
		i) Push Button & Lamp Indicator				•
	2	Wireless Communication System for Jackwell	Nos	1	1398517.1	13,98,517.10
		Supply & delivery at site, testing and commissioning of brand new wirelees communication system: at Jackwell for communication of controlling motors with PLC & SCADA.				1
		a) Wireless Module device with Antena				•
		b) Controller with USB cable for interfacing				

Nos State Nos State Nos State Nos State Nos State Nos State Nos State Nos State Nos State State Nos State							
3 Flow Switch	IS X	0	Description	Unit	Rate	Rate	Amount
Grant Switch at jackwell pump outlet for motor Pump protection operation in order to avoide dry Run of motor Pump during absense of water flow. Flow Switch:-FM4 GPS (SPDT (NO-C.NC) Snap Action, Potential Free change over Conact -15 Amp.250V;50Hz) Polycarbonate Enclosure to IP-65. 4 Electrical Actuators for existing valves at jackwell Pump Outlet with Automation/Manual Requires Fallowing: Set 2 1150393.1 Electrical Actuators for existing valves at jackwell Pump Outlet with Automation/Manual Requires Fallowing: Automation/Manual Requires Fallowing: Set S		3	Flow Switch	Nos	2	21428.9	42,857.80
Flow Switch-FM4 GPS (SPDT (NO.C-NC) Snap Action, Potential Free change over Conact -15 Amp,250V,50H2) Polycarbonate Enclosure to IP-65. 2 1150393.1			flow switch at jackwell pump outlet for motor Pump protection operation in order to avoide dry Run of motor Pump during absense of water flow.		13 33		•
4 Electrical Actuvators			Flow Switch:-FM4 GPS (SPDT (NO-C-NC) Snap Action,Potential Free change over Conact -15 Amp,250V,50Hz) Polycarbonate Enclosure to IP-65.				,
Electrical Actuators for existing valves at jackwell Pump Outlet with Automation/Manual Requires Fallowing: Design standards : API 600		4	Electrical Actuvators	Set	2	1150393.1	23,00,786.20
Design standards : API 600 Testing Standards : API 598 Face to Peace / Dimensions : ASME B 16.10 End connection : Flanged to suit # 150 Class rating : # 150 Body : ASTM A 216 Gr. WCB Bonnet : ASTM A 216 Gr. WCB Wedge: ASTM A 276 Gr 410 Cland : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H a) 200NB i) Power contractor 2) Over load Relay 3) 3 POLE MCB d) Other Switchgeear Assembly , Power Wiring & Signal Wiring 5 Pressure Sensor are to be fixed at Jackwell Outlet Pipe & Pumphouse Outlet for Measuring Pressure of the Water flow 6 PtC Panel at WTP Plant 6 PtC Panel at WTP Plant 7 17404883			Electrical Actuators for existing valves at jackwell Pump Outlet with Automation/Manual Requires Fallowing;				•
Testing Standards : API 598 Face to Face / Dimensions : ASME B 16.10 End connection : Flanged to suit # 150 Class rating : # 150 Class rating : # 150 Body : ASTM A 216 Gr. WCB Bonnet : ASTM A 216 Gr. WCB Bonnet : ASTM A 226 Gr 410 Stem : ASTM A 276 Gr 410 Stem : ASTM A 276 Gr 410 Saat Ring : ASTM A 276 Gr 410 Cland : ASTM A 276 Gr 410 Cland = ASTM A 276 Gr 410 Cland = ASTM A 276 Gr 410 Cland = ASTM A 276 Gr 410 Cland = ASTM A 276 Gr 410 Cland = ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stem : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stem : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stem : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stem : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stem : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stem : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stem : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stem : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stem : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stem : ASTM A 194 Gr. B7 / ASTM A 194 Gr. 2H Stem : ASTM A 194 Gr. B7 / ASTM A 194 Gr. 2H Stem : ASTM A 276 Gr. 410		Design standards: API 600					
Face to Face / Dimensions : ASME B 16.10			Testing Standards: API 598				
End connection : Flanged to suit # 150 Class rating : # 150 Body : ASTM A 216 Gr. WCB Bonnet : ASTM A 216 Gr. WCB Wedge : ASTM A 226 Gr 410 Gland : ASTM A 276 Gr 410 Gasket SPW SS 304 Gland Packing : Graphite/Grafoil Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 194 Gr. B7 / ASTM A 194 Gr. B7 / ASTM A 194 Gr. B7 / ASTM A 194 Gr. B7 / ASTM A 194 Gr. B7 / ASTM A 194 Gr. B7 / ASTM A 194 Gr. B7 / ASTM A 194 Bant Bant Section: Classing A MTP Main Plant Section: Classing A MTP Main Plant Section: Class A 1 / A 1740483.3			ASME				
Class rating: # 150 Body: ASTM A 216 Gr. WCB Wedge: ASTM A 216 Gr. WCB Wedge: ASTM A 216 Gr. WCB + 13% cr Stem: ASTM A 276 Gr 410 Gland: ASTM A 276 Gr 410 Gland: ASTM A 276 Gr 410 Gland Packing: Graphite/Grafoil Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 194 Gr. B7 / ASTM A 194 Gr. B7 / ASTM A 194 Gr. B7 / ASTM A 194 Gr. B7 / ASTM A 194 Gr. B7 / ASTM A 194 B1 A WTP Plaint Section: Set							
Body : ASTM A 216 Gr. WCB Bonnet : ASTM A 216 Gr. WCB			Class rating : # 150				
Wedge: ASTM A 216 Gr. WCB + 13% cr Stem: ASTM A 226 Gr 410 Gland: ASTM A 276 Gr 410 Gasket SPW SS 304 Gland Packing: Graphite/Grafoil Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H 1) Power contractor 2) Over-load Relay 3) 3 POLE MCB 4) Other Switchgeear Assembly , Power Wiring & Signal Wiring 5 Pressure Sensors are to be fixed at Jackwell Outlet Pipe & Pumphouse Outlet for Measuring Pressure of the Water flow WTP Main Plant Section: 6 PLC Panel at WTP Plant			Body: ASTM A 216 Gr. WCB Bonnet: ASTM A 216 Gr. WCB				
Stem : ASTM A 276 Gr 410 Gland : ASTM A 276 Gr 410 Seat Ring : ASTM A 276 Gr 410 Seat Ring : ASTM A 276 Gr 410 Casket SPW SS 304 Gland Packing : Graphite/Grafoil Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Stud / Nut : ASTM A 194 Gr. 2H Stu			Wedge : ASTM A 216 Gr. WCB + 13% cr				
Gland: ASTM A 276 Gr 410 Seat Ring: ASTM A 276 Gr 410 Seat Ring: ASTM A 276 Gr 410 Gasket SPW SS 304 Gland Packing: Graphite/Grafoil Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H a) 200NB			Stem : ASTM A 276 Gr 410				
Seat Ring: ASTM A 276 Gr 410 Gasket SPW SS 304 Gland Packing: Graphite/Grafoil Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H a) 200NB 1) Power contractor 2) Over load Relay 3) 3 POLE MCB 4) Other Switchgeear Assembly , Power Wiring & Signal Wiring 5 Pressure Sensors are to be fixed at Jackwell Outlet Pipe & Pumphouse 6 Pressure Sensors are to be fixed at Jackwell flow WITP Main Plant Section: Set 1 6 PLC Panel at WTP Plant			Gland : ASTM A 276 Gr 410				
Gasket SPW SS 304 Gland Packing: Graphite/Grafoil Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H a) 200NB			Seat Ring: ASTM A 276 Gr 410				
Gland Packing: Graphite/Grafoil Stud / Nut: ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H a) 200NB			Gasket SPW SS 304				
3) 200NB 1) Power contractor 2) Over load Relay 2) Other Switchgear Assembly , Power Wiring & Signal Wiring 2) Other Switchgear Assembly , Power Wiring & Pressure Sensors are to be fixed at Jackwell Outlet Pipe & Pumphouse 2) Pressure Sensors are to be fixed at Jackwell Outlet Pipe & Pumphouse 2 84587.7 Pressure Sensors are to be fixed at Jackwell Outlet Pipe & Pumphouse 2 84587.7			Gland Packing : Graphite/Grafoil Stud / Nut : ASTM A 193 Gr R7 / ASTM A 194 Gr 2H				
1) Power contractor 2) Over load Relay 3) 3 POLE MCB d) Other Switchgeear Assembly , Power Wiring & Signal Wiring d) Other Switchgeear Assembly , Power Wiring & Signal Wiring 5 Pressure Sensor Pressure Sensors are to be fixed at Jackwell Outlet Pipe & Pumphouse Outlet for Measuring Pressure of the Water flow WTP Main Plant Section: 6 PLC Panel at WTP Plant 6 PLC Panel at WTP Plant	\dagger			Set	1	16917.5	16,917.50
2) Over load Relay 3) 3 POLE MCB d) Other Switchgeear Assembly , Power Wiring & Signal Wiring d) Other Switchgeear Assembly , Power Wiring & Signal Wiring 5 Pressure Sensor Pressure Sensors are to be fixed at Jackwell Outlet Pipe & Pumphouse Outlet for Measuring Pressure of the Water flow WTP Main Plant Section: 6 PLC Panel at WTP Plant 6 PLC Panel at WTP Plant	\mid		1) Power contractor				1
3) 3 POLE MCB 2) 3 POLE MCB 4) Other Switchgeear Assembly , Power Wiring & Signal Wiring 5 7 84587.7 8			2) Over load Relay				1
d) Other Switchgear Assembly ,Power Wiring & Signal Wiring 5 Pressure Sensor Pressure Sensors are to be fixed at Jackwell Outlet Pipe & Pumphouse Outlet for Measuring Pressure of the Water flow WTP Main Plant Section: 6 PLC Panel at WTP Plant 1 1740488.3			3) 3 POLE MCB				1
5 Pressure Sensor Nos 2 84587.7 Pressure Sensors are to be fixed at Jackwell Outlet Pipe & Pumphouse Outlet for Measuring Pressure of the Water flow WTP Main Plant Section: 6 PLC Panel at WTP Plant 1740488.3			d) Other Switchgeear Assembly ,Power Wiring & Signal Wiring				ı
Pressure Sensors are to be fixed at Jackwell Outlet Pipe & Pumphouse Outlet for Measuring Pressure of the Water flow WTP Main Plant Section: 6 PLC Panel at WTP Plant 6 PLC Panel at WTP Plant		5	Pressure Sensor	Nos	2	84587.7	1,69,175.40
Outlet for Measuring Pressure of the Water flow WTP Main Plant Section: 6 PLC Panel at WTP Plant Set 1 1740488.3			Pressure Sensors are to be fixed at Jackwell Outlet Pipe & Pumphouse				
WTP Main Plant Section: 6 PLC Panel at WTP Plant 1 1740488.3			Outlet for Measuring Pressure of the Water flow				•
PLC Panel at WTP Plant 1740488.3	B)		WTP Main Plant Section:		57		1
		9	PLC Panel at WTP Plant	Set	1	1740488.3	17,40,488.30

		•			,
SI. No	Description	Unit	Rate	Rate	Amount
	a) Design standards: API 600 Testing Standards: API 598 Face to Face / Dimensions: ASME B 16.10				
<u> </u>					
	Body: ASTM A 216 Gr. WCB Bonnet: ASTM A 216 Gr. WCB Wedge: ASTM A 216 Gr. WCB + 13% cr				
	Stem: ASTM A 276 Gr 410				
	Seat Ring: ASTM A 276 Gr 410				
	Gasket SPW SS 304				
	Gland Packing : Graphite/Grafoil Stud / Nut : ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H Size - 300NB				
		No	1	552639.8	5,52,639.80
	b) Clariflier Bridge Electrical components for existing gear box and motor to drive the bridge assembly for automation	ĊN	-	29323.7	29.323.70
	1) Power contractor				
	2) Over load Relay				,
	3) 3 POLE MCB				
	c) Agitator Electrical components for existing gear box and motor to drive for				
	automation				-
	1) Power contractor				•
	2) Over load Relay				•
	3) 3 POLE MCB				•
	d) Other Switchgeear Assembly ,Power Wiring & Signal Wiring				
11	Liquid Alum Dosing Unit	Set	3	84700.5	2,54,101.50
	Supply installation and commissioning of Alum mixer and complete drive system.				•
	a) providing 0.5 hp electric motor of make kirloskar / ABB / Siemens or				
	with 1:20 reduction ratio with motor cover for safety				1
Н	b) Paddles and shaft Assembly				,
	Impeller of size Ø258 x 52 mm of MOC Stainless Steel of grade 304 and shaft of size 20 mm of MOC Stainless Steel of grade 304				
					1

Si. No	SI. No	Description	Unit	Rate	Rate	Amount
		c) Electrical panel and starters: installing electrical equipment in a closed out door M.S cubical with electrical arrangement to Alum Mixer unit etc.complete with all the required materials like motor connections, switches, starters, etc complete				
		i) Providing and fixing triple pole switch of standard (salzer) company 15 to 20 amps				
		ii) Providing and fixing MCB 2 to 6 amps triple pole (make: siemens / schneider)				1
		iii) Supplying push button operated direct on line starter (make: siemens/schneider) with an antiweld silver cadmium oxide contacter with replaceable fixed and moving contacts and bimetallic thermal overload relay held in anticorrosive treated sheet steel or iron clad enclosure and fixing the same to suitable capacity wires for 400/440volts 3 phase motor				1
		d) Dosing Pump	Set	1	40602.1	40,602.10
		Capacity 0 - 80lph Power 0.5hp Pressure 6kg/cm ² Connection 1/2"BSP F x 1/2"BSP F				•
<u> </u>		Automatic PLC controlled Liquid alum dosing for raw water inlet including suitable positive displacementry pump with VFD motor controller and thie Accessories with 3 Phase Induction motor and communication with PLC and SCADA system. It Includes following;				
			Set	1	169175.5	1,69,175.50
		a) VFD Motor Controller				1
+		D) 3 pole MPCB C) Power Contractor 9 Amp				
П		d) 3 Phase DOL starter 3 Phase,2 Amp				
		e)Level Sensor d) Other Switchgeear Assembly ,Power Wiring & Signal Wiring				
\dagger	12	Rlach Miving Ilnit	400		16017	16 017 50
<u> </u>		Automatic PLC Controlled Flash mixing unit for dosed alum mixing Properly with switch gear and motor assembley for proper mixing of alum with raw water.	3	1	0.71701	10,717.30

							-
o Z	SI. No	Description	Unit	Rate	Rate	Amount	
	L	1) Power contractor					I
		2) Over load Relay				•	П
		3) 3 POLE MCB					П
		d) Other Switchgear Assembly ,Power Wiring & Signal Wiring				•	
	13	Rapid Sand filter				•	Т
	13.1	Rapid Sand Filter Gate Valves with Electrical Actuators				1	Т
		Design standards: API 600					
		resting Standards: APT 398 Face to Face / Dimensions: ASME B 16.10					
		End connection: Flanged to suit # 150	•				
		Class rating: # 150					
		Body : ASTM A 216 Gr. WCB Bonnet : ASTM A 216 Gr. WCB Wedge : ASTM A 216 Gr. WCB + 13% cr					
		Stem : ASTM A 276 Gr 410					
		Gland : ASTM A 276 Gr 410					
		Seat Ring: ASTM A 276 Gr 410					
		Gasket SPW SS 304					
		Gland Packing: Graphite/Grafoil					
		Other Francis Communication of the Communication of	Cat	2	2871516	8 61 454 80	1_
		A) ADDNB	Set	m	746627.7	22.39.883.10	
		C) 350NR	Set	3	665423.4	19,96,270.20	0
		d) 400NB	Set	3	746627.7	22,39,883.10	0
	13.2		set	1	1152964.5	11,52,964.50	0
		Blockwich Activitions for DCE Inlot 8. Outlet Auto/Manual operation 8.					Т
	===	sh Inlet & Outlet Auto/Manual operation					
		with PLC Panel with PLC Controller for Electrical Actuvators at RSF & switch				•	·
		a) PLC with Automatic operation for controlling commands with Reputed					
		make rlc with an operating voltage of 24v DC, with 20 Digital hiputs & 12 Digital Outputs.				,	
		b)PLC with USB port for programming,Ethernet port configurable for MODBUS TCP IP,programming and PC communication, with add on card for atleast 8 inputs and other analog signals,RS 232 or RS 485 port with life				,	
							7

				-		7 10
SI. No	<u>.</u> 0	Description	Unit	Rate	Rate	Amount
Н		c) 32 Point Digital Input Expansion Module				•
П		d) 32 Point Digital Output Expansion Module				-
		e) 4 Point Analog Input Module				-
		c) Relay module with 2CO,24 V DC,8 Channel, DIN rail mounting,				•
		d)Selector Switch 2 Position Maintained Command Black				•
		e)Selector Switch 3 Position Maintained Command Black				_
T		f) Analog to Modbus Converter				*
<u> </u>		g) Power Supply 24 VDC @ 10A (SMPS)				
		h) Panel with other switchgear Accessories				•
		1) Power contractor				-
		2) Over load Relay				•
		3) 3 POLE MCB				•
Н		I) Push Button & Lamp Indicator				-
	14	Ultrasonic Level Sensors	Nos	3	95866.1	2,87,598.30
		Supply & Delivery, assembley at site erection, testing, trail run & Commissioning of non contact type ultrasonic level sensors with calibration required for RSF bed & 2 water tanks. (one at overhead backwash tank & another for Pure				
		water sump tank) a) Minimum Range -0 to 10 meter b) 2 wire sensor with Output-4-				
		20mA/2 Wire				1
		installation of ultrasonic sensor with power wiring with neccessary bracket and protection cover arrangement.				•
		d) Other Switchgeear Assembly ,Power Wiring & Signal Wiring				1
	15	Chlorination Unit & Online pH Meter				•
П		1) Online Automatic chlorine unit:	Set	1	665423.4	6,65,423.40
		Supplying, Designing & modifying existing Chlorination unit at WTP plant for Auto/Manual operation fixed with Pure sump water tank inlet for monitoring chlorine content. And shall be connected to the PLC and SCADA system for real time chlorine level monitoring and data accumulation from the conrol room.	_			•
1						

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S Z	SI. No	Description	Unit	Rate	Rate	Amount
		a) Amperometric Chlorine analysis with mreasuring range of 0-10ppm of TRC/FRC/RC along with pH probe with display unit				•
		2) Online pH Meter:	Set	1	552639.8	5,52,639.80
		Supplying & Installing of online pH meter for monitoring pH Level at Pure sump tank outlet.pH should have automatic temp compensastion and auto calibration supply.				
		d) Other Switchgeear Assembly ,Power Wiring & Signal Wiring				•
	16	Power Backup (UPS)	Nos	1	180453.8	1,80,453.80
		a) 4 KVA Power Backup unit with 6-8 hours Backup for monitoing SCADA & PLC data.				ī.
		Power Backup unit with all mains power wiring & MCB's DB Box power wiring etc.				'
	17	PLC Panel at Pump House & other Accessories	Nos	1	564053.5	5,64,053.50
		Supplying,Installing and succesful Commissioning of Aditional New Panel with PLC for Automatic operation control with existing Panel at Pump House				
		a) PLC with Automatic operation for controlling commands with Reputed make PLC with an operating voltage of 24V DC, with 20 Digital inputs & 12 Digital Outputs.				•
		b)PLC with USB port for programming,Ethernet port configurable for MODBUS TCP IP,programming and PC communication, with add on card for atleast 8 inputs and other analog signals,RS 232 or RS 485 port with life time activated licensed Programming and application software.				'
		c) Relay module with 2C0,24 V DC,8 Channel, DIN rail mounting,				•
		d) Selector Switch 2 Position Maintained Command Black				
		e) Selector Switch 3 Position Maintained Command Black				•
		f) Analog to Modbus Converter				•
		g) Power Supply 24 VDC @ 10A (SMPS)				r
		h) Panel with other switchgear Accessories				•
		I) Push Button & Lamp Indicator				
		d) Other Switchgeear Assembly ,Power Wiring & Signal Wiring				1

11				•		
٠, ح	SI. No	Description	Unit	Rate	Rate	Amount
	18	SCADA System Software	Nos	1	361133.2	3,61,133.20
		a) Design development of SCADA application software: for data storage communication with all instruments;to provide Run/Stop instruction for all Motors/Actuators, Providing Automatic logical operating sequence of all systems as per the instruction of the Engineer in charge				
		b) SCADA Runtime and Development Key				-
		C) Other Switchgeear Assembly ,Power Wiring & Signal Wiring				•
	19	Installation of LED Disply Screen at Control Station for SCADA Monitoring	Nos	2	110076.8	2,20,153.60
		Supply install and commissioning of reputedmake brand new LED Display screen of minimum 40" (Inches) screen size with all mounting bracket arrangement and accessories for displaying realtime overview of the SCADA.				1
		Necessary Cabling, electrification work etc.to be connected to SCADA system				,
	20)	Electrical Panel with Computer server	Nos	1	432998.9	4,32,998.90
		SCADA & Instrumentation Computer Server with Control Panel and other Accessories				
	21)	Intermediate Wiring	Nos	1	721815.3	7,21,815.30
				4	Part A + B Total	2,32,43,863.20

8 N	Description	Unit	Rate	Rate	Amount
	Part C: Over head tank Water Flow Count				
1			_		
	Model: MagFlow 6410				
	Transmitter Type : Remote				
	View Software: Not Required				
	Power Supply : Solar Powered with Battery backup				
-	Output: 4 - 20 mA DC				
	Communication Interface: GSM (SIM Card is in your scope) Data Logger: Not				
	Required				
	Line Size : Refer below table				
	Pressure Rating: 10 kg/cm2				
	Design of the measuring sensor : DIN PN 10				
	Flange Material : Carbon Steel Sensor Lining : Hard Rubber Electrode Material :				
·- <u>-</u>	SS B52				
	Earthing Rings: SS 316				
	Measuring Tube: SS 316				
	Coil Housing : Carbon Steel				
	Protection Class for Sensor : IP 68				
	Approval: None				
	Sensor Cable: 10 meters				
	Accuracy : ± 0.5% of measured value				•
	a) 80 NB	Nos	11	1,20,511.40	13,25,625.40
	b) 100 NB	Nos	8	1,42,441.60	11,39,532.80
	Solar System				
	Arrangement: Solar Operated Inverter with battery backup with necessary				
	mounting arrangement				
	a				
	100 W Multi Crystalline solar photovoltaic			-	
_	Mounting structure for solar photovoltaic modules with anti-corrosive				
	lunction Box : Junction boxes with anti-corrosive coating				
	Battery: 12 V 100 Ah with charger make Exide	Nos	19	1,14,872,20	21.82.571.80
				Part C - Total	46,47,730.00
			Total Ar	Total Amount (A+B+C)	2,78,91,593.20

Note: The lowest rates quoated by Creintors Environmental Solutions Pvt. Ltd Belagavi are recommended for approval for estimate purpose.

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SUB ESTIMATE: CONSTRUCTION OF VALVE CHAMBER

	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount
1	KSRB 2-23.1 : Earthwork excavate llines and electrical conduits either Ordinary/hard soil not exceeding 1. pits and trenches, stacking the excapt 50 m. after breaking of clods comple 2.3.5 Mechanical Means	er in pits or 5 m. in depth avated soil cl	in trend including ear from	thes 1.5m and ng dressing the edges of exca	l above in bottom and vation with	width, in d sides of lead upto			
	Schedule Of Rates PWD, Myso	re Circle 20)16-17 ((Page No.7 I	tem No.2.	23.1)			
		Cum	1	2.10	2.10	1.45	6.39	53.00	339.0
2	KSRB 4-1.3: Providing and laying cement @ 180kgs, with 40mm ar @0.85cum and fine aggregates @ in layers not exceeding 15 cms. th materials, labour, HOM of machine No. KBS 4.1, 4.2 (Page No.12 Item	nd down size 0.57cum ma lick, well con ery, curing co	e graded schine mapacted,	f granite meta ixed, machine in foundation,	l coarse ag mixed, con including o	ggregates crete laid cost of all			
	Schedule Of Rates PWD,Myso Item No.4.3)	re Circle 20	016-17 ((Page No.12					
	item No.4.3)	Cum	1	2.10	2.10	0.15	0.66	4867.00	3212.0
3	KSRB 4-1.7 : Providing and laying cement @ 220kgs, with 20mm ar @0.84cum and fline aggregates @ exceeding 15 cms. thick, well comp materials, labour, HOM of machline No. KBS 4.1, 4.2	nd down size 0 0.56cum, roacted, in fou	e gradeo nachline indation,	f granite meta mixed, concre plinth and cills	I coarse agete laid in I	ggregates ayers not cost of all			
	Schedule Of Rates PWD,Myso	re Circle 20	016-17	(Page No.13					
	Schedule Of Rates PWD,Myso Item No.4.7)	re Circle 20	016-17 (1	(Page No.13 1.05	1.05	0.10	0.11	5282.00	581.00
4		Cum tructing gran 6 (uncoursed	1 ite / trap	1.05 o / basalt rubb d stones at tv	1.05 le stone m vo m. apar	asonry in t in each	0.11	5282.00	581.0
4	KSRB 5.1-3 : Providing and const foundation with cement mortar 1:: course including cost of materials 5.1.12 Schedule Of Rates PWD, Myso	Cum tructing gran 6 (uncoursed s, labour, cu	1 ite / trap d), bonaring cor	1.05 / basalt rubb d stones at tv mplete as per	1.05 le stone m vo m. apar specification	asonry in t in each	0.11	5282.00	581.0
4	KSRB 5.1-3 : Providing and const foundation with cement mortar 1: course including cost of materials 5.1.12	Cum tructing gran 6 (uncoursed s, labour, cu	1 ite / trap d), bonaring cor	1.05 / basalt rubb d stones at tv mplete as per	1.05 le stone m vo m. apar specification 0.45	asonry in t in each	2.98	5282.00	581.0
4	KSRB 5.1-3 : Providing and const foundation with cement mortar 1:: course including cost of materials 5.1.12 Schedule Of Rates PWD, Myso	Cum tructing gran 6 (uncoursed s, labour, cu	1 trapid), bondring cor	1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	1.05 le stone m vo m. apar specification 0.45	asonry in t in each ons. KBS	2.98		
4	KSRB 5.1-3 : Providing and const foundation with cement mortar 1: course including cost of materials 5.1.12 Schedule Of Rates PWD, Myso Item No.5.3)	Cum tructing gran 6 (uncoursed s, labour, cu ore Circle 20	1 trapite / trapit), bondring condition	1.05 1.05	1.05 le stone m vo m. apar specification 0.45 0.09)/4	asonry in t in each ons. KBS	2.98	5282.00 3249.00	
5	KSRB 5.1-3 : Providing and const foundation with cement mortar 1:: course including cost of materials 5.1.12 Schedule Of Rates PWD, Myso Item No.5.3)	Cum tructing gran 6 (uncoursed s, labour, cu re Circle 2 Cum Cum pointing to conts to depth	1 ite / trap if), bond iring cor 1 -2 coursed of 20n	1.05 1.05	1.05 le stone m vo m. apar specification 0.45 0.09)/4 0.45	asonry in t in each ons. KBS 1.30 ent mortar	2.98		581.0 9650.0
	KSRB 5.1-3: Providing and const foundation with cement mortar 1: course including cost of materials 5.1.12 Schedule Of Rates PWD, Myso Item No.5.3) Deduction Pipe portion KSRB 15.1.3 -do- Providing ruled 1:3, 20mm deep, after raking joi	Cum tructing gran 6 (uncoursed s, labour, cu re Circle 2 Cum Cum pointing to depth as per specifi	1 ite / trap if), bon- iring cor 1 -2 coursed of 20n cations.	1.05 7 basalt rubb distones at two plete as per consider the street of the constant of the co	1.05 le stone m yo m. apar specification 0.45 0.09)/4 0.45 with ceme g, including	asonry in t in each ons. KBS 1.30 ent mortar g cost of	2.98		

	. Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount
6	KSRB 4.2.3 : Providing and laying OPC cement @ 240kgs, with 20mm @0.878cum and fline aggregates @exceeding 15 cms thick, vibrated for roof slabs, staircase, lintels, retaini attached plasters, columns, piers, lacing courses, parapets, coping, bincluding cost of all materials, laspecifications.(Excluding cost of st KBS 4.1, 4.6	and down si 0.0.459cum, r all works in ng walls, retr abutments, ed blocks, al bour, HOM	ize gradeo machline foundatio urn walls, pillars, pon nchor bloo of mach	d granite meta mixed, concre on plinth and g walls (any the osts, struts, b cks, plain wind alinery, curing	I coarse agete laid in la round floor nickness) i uttresses, dow cills, fil, complete	gregates ayers not level for including string or lets etc., as per			
	Schedule Of Rates PWD,Myso	re Circle 20)16-17 (Page No.14	item No.4	.12)			
	A) Percast Slab	Cum	1	1.95	1.95	0.15	0.57		
	B) For Coping	Cum	1	5.10	0.45	0.10	0.23		
						_	0.80	6367.00	5094.00
_	Providing and fabricating TMT re	inforcement	including						
7	hooking, lapping and / or welding binding wire of approved quality and the adjoining members wherever not as per design specification and directions.	wherever r d guage incl ecessary incl	equired,p uding cos luding all	lacing in posit of binding will laps and wast	tion and ty re and and ages ect., o	ving with horing to complete			
1	hooking, lapping and / or welding binding wire of approved quality and the adjoining members wherever has per design specification and direct schedule Of Rates PRE, Myson	wherever r d guage incle ecessary incle ctions (laps a	equired,p uding cos luding all and wasta	lacing in posi t of binding wi laps and wast ges not to be	tion and ty re and anc ages ect., o measured a	ving with horing to complete and paid)			
<i>(</i>	hooking, lapping and / or welding binding wire of approved quality and the adjoining members wherever not as per design specification and direction and dire	wherever r d guage incle ecessary incle ctions (laps a	equired,p uding cos luding all and wasta	lacing in posit of binding will laps and wast ges not to be	tion and ty re and anc ages ect., on measured a	ving with horing to complete and paid)	64.00		
2	hooking, lapping and / or welding binding wire of approved quality and the adjoining members wherever has per design specification and direct schedule Of Rates PRE, Myson 2.11)	wherever r d guage incle ecessary incle ctions (laps a	equired,p uding cos luding all and wasta	lacing in posi t of binding wi laps and wast ges not to be	tion and ty re and anc ages ect., o measured a	ving with horing to complete and paid)	64.00 0.06	56697.50	3402.00
8	hooking, lapping and / or welding binding wire of approved quality and the adjoining members wherever has per design specification and direct schedule Of Rates PRE, Myson 2.11)	wherever rd guage inclescessary inclescions (laps a	equired,p uding cos luding all and wasta	lacing in posit of binding will laps and wast ges not to be	tion and ty re and anc ages ect., on measured a	ving with horing to complete and paid)		56697.50	3402.00 1187.00

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ-ವಿಭಾಗ. ಶ್ರೀರಂಗಪಟ್ಟಣ

SUB ESTIMATE: CONSTRUCTION OF VALVE CHAMBER

	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount
1	KSRB 2-23.1 : Earthwork excavilines and electrical conduits eith Ordinary/hard soil not exceeding pits and trenches, stacking the exceeding of clods compacts. Some after breaking of clods compacts.	ner in pits or 1.5 m. in deptt cavated soil cl	in trend includir ear from	thes 1.5m and ng dressing the edges of excav	above in bottom and ration with	width, in d sides of lead upto			
	Schedule Of Rates PWD,Mys	ore Circle 20	016-17 ((Page No.7 It	em No.2.	23.1)			
		Cum	1	2.40	2.40	1.75	10.08	53.00	534.0
2	KSRB 4-1.3: Providing and laying cement @ 180kgs, with 40mm a @0.85cum and fine aggregates @ in layers not exceeding 15 cms. if materials, labour, HOM of machin No. KBS 4.1, 4.2 (Page No.12 Itel Schedule Of Rates PWD, Mys	and down size 0 0.57cum mathick, well connery, curing connery,	e graded achine m apacted, amplete	I granite metal ixed, machine i in foundation, as per specifica	coarse ag nixed, cond including c	gregates crete laid ost of all			
	Item No.4.3)								
		Cum	1	2.40	2.40	0.15	0.86	4867.00	4186.0
3	KSRB 4-1.7: Providing and laying cement @ 220kgs, with 20mm a @0.84cum and fline aggregates exceeding 15 cms. thick, well commaterials, labour, HOM of machlin No. KBS 4.1, 4.2	and down size @ 0.56cum, n npacted, in fou	graded nachline ndation,	granite metal mixed, concret plinth and cills,	coarse ag e laid in la including c	gregates ayers not cost of all			
	Schedule Of Rates PWD, Mys	ore Circle 20)16-17 (Page No.13					
	Item No.4.7)	Cum	1	1.35	1.35	0.10	0.18	5282.00	951.0
4	KSRB 5.1-3 : Providing and consfoundation with cement mortar 1 course including cost of materia 5.1.12	structing grani :6 (uncoursed	te / trap	/ basalt rubble	stone ma	asonry in in each	0.18	5282.00	951.0
4	KSRB 5.1-3: Providing and constitution with cement mortar 1 course including cost of materia 5.1.12 Schedule Of Rates PWD, Myse	structing grani :6 (uncoursec ls, labour, cu	te / trap l), bond ring con	/ basalt rubble d stones at two aplete as per	stone ma	asonry in in each	0.18	5282.00	951.00
4	KSRB 5.1-3 : Providing and constitution with cement mortar 1 course including cost of materia 5.1.12	structing grani :6 (uncoursec ls, labour, cu	te / trap l), bond ring con 016-17 (/ basalt rubble d stones at two aplete as per	e stone ma o m. apart specificatio 0.45	asonry in in each	0.18 4.54	5282.00	951.0
4	KSRB 5.1-3: Providing and constitution with cement mortar 1 course including cost of materia 5.1.12 Schedule Of Rates PWD, Myse	structing grani :6 (uncoursed ls, labour, cu	te / trap l), bond ring con 016-17 (/ basalt rubble d stones at two nplete as per s Page No.25 6.30	e stone ma o m. apart specificatio 0.45	asonry in in each ns. KBS	4.54 -0.01		
4	KSRB 5.1-3: Providing and constitution with cement mortar 1 course including cost of materia 5.1.12 Schedule Of Rates PWD, Myst Item No.5.3)	structing grani :6 (uncoursectls, labour, cu ore Circle 20 Cum	te / trap l), bond ring con 016-17 (/ basalt rubbled stones at two hiplete as per stone Page No.25 6.30 (3.142x(0.09x0)	e stone ma o m. apart specificatio 0.45 09)/4	asonry in in each ns. KBS	4.54	5282.00 3249.00	
5	KSRB 5.1-3: Providing and constitution with cement mortar 1 course including cost of materia 5.1.12 Schedule Of Rates PWD, Myst Item No.5.3)	structing grani :6 (uncoursects, labour, cu ore Circle 20 Cum Cum I pointing to coints to depth	te / trap I), bond ring con 16-17 (1 -2 oursed s of 20m	/ basalt rubble d stones at two aplete as per separate Page No.25 6.30 (3.142x(0.09x0 0.01	e stone ma o m. apart specificatio 0.45 09)/4 0.45	asonry in in each ns. KBS 1.60 at mortar	4.54 -0.01		
	KSRB 5.1-3: Providing and constoundation with cement mortar 1 course including cost of materia 5.1.12 Schedule Of Rates PWD,Myst Item No.5.3) Deduction Pipe portion KSRB 15.1.3 -do- Providing ruled 1:3, 20mm deep, after raking jo	structing grani :6 (uncoursed ls, labour, cu ore Circle 20 Cum Cum I pointing to counts to depth as per specific	te / trap l), bond ring con 016-17 (1 -2 oursed s of 20m cations.	/ basalt rubble d stones at two aplete as per stone has per stone has per stone has per stone masonry and nicely lining	e stone ma o m. apart specificatio 0.45 09)/4 0.45 with cemer	asonry in in each ns. KBS 1.60	4.54 -0.01		951.00

Si. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount
	KSRB 4.2.3 : Providing and laying in OPC cement @ 240kgs, with 20mm a @0.878cum and fline aggregates @ exceeding 15 cms thick, vibrated for roof slabs, staircase, lintels, retaining attached plasters, columns, piers, a lacing courses, parapets, coping, begincluding cost of all materials, labs specifications.(Excluding cost of steek KBS 4.1, 4.6	and down s 0.459cum, all works in g walls, ret butments, d blocks, a our, HOM	ize graded machline foundation urn walls, pillars, p nchor blo of mach	d granite met mixed, conc on plinth and , walls (any osts, struts, cks, plain win linery, curin	al coarse ag rete laid in la ground floor thickness) buttresses, ndow cills, fil g, complete	gregates ayers not level for including string or llets etc., as per			
	Schedule Of Rates PWD,Mysore	Circle 20)16-17 (Page No.14	Item No.4	.12)			
	A) Percast Slab	Cum	1	2.25	2.25	0.15	0.76		
	B) For Coping	Cum	1	6.30	0.45	0.10	0.28		
						_	1.04	6367.00	6622.00
	Providing and fabricating TMT rein hooking, lapping and / or welding wind binding wire of approved quality and the adjoining members wherever nec as per design specification and directing the second second contraction and directing the second second contraction and directing the second second second contraction and directing the second second second contraction and directing the second secon	wherever r guage inclo essary incl	equired,pluding cost ading all to ading all to	lacing in pos t of binding v laps and was	sition and ty rire and ancl stages ect., o	ving with horing to complete			
	Schedule Of Rates PRE,Mysore 2.11)	Circle 20	12-13 (F	Page No.VIII	Item No.7	9 &			
	Qty of Item No 6		1.04	@	80.00 Kg	ı/Cum	83.20		
		MT			· ·		0.08	56697.50	4536.00
8	Miscelleneous and rounding off								606.00
	Callangrate	gri		. (_	33000.00

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ESTIMATE FOR CONSTRUCTION OF THRUST BLOCK (0.75m x 0.75m)

1	KSRB 2-23.1 : Earthwork excava	<u></u>							
	Ilines and electrical conduits eith Ordinary/hard soil not exceeding 1 pits and trenches, stacking the exceeding 1 of clods compared to the compared to the conduction of the	er in pits or .5 m. in depth avated soil cl	in tren includi ear fron	iches 1.5m and ing dressing the n edges of exca	above in bottom and vation with	width, in d sides of lead upto			
	Schedule Of Rates PWD, Myse	ore Circle 20)16-17	(Page No.7 I	tem No.2.	23.1)			
		Cum	1	1.15	1.15	1.13_	1.49 1.49	53.00	79.00
2	KSRB 4-1.3 : Providing and laying cement @ 180kgs, with 40mm a @0.85cum and fine aggregates @ in layers not exceeding 15 cms. t materials, labour, HOM of machin No. KBS 4.1, 4.2 (Page No.12 Iter	nd down size 0.57cum ma hick, well con ery, curing co	e grade chine n pacted	ed granite meta nixed, machine I, in foundation,	I coarse ag mixed, con- including c	gregates crete laid cost of all			
	Schedule Of Rates PWD,Mysoltem No.4.3)			. •					
		Cum	1	1.15	1.15	0.10	0.13	4867.00	633.00
	cement @ 300kgs, with 20mm a @0.64cum and fline aggregates IS9103-1999 Reaffirmed-2008, macms. thick, well compacted, in fo labour, HOM of machlinery, curing 4.1, 4.2	@ 0.43cum, achline mixed undation, plintl	with somerors and control of the con	uperplastisiser ete laid in laye cills, including o	@3lts confirs not exce	irming to eding 15 naterials,			
	Schedule Of Rates PWD,Mysoltem No.4.5)	ore Circle 20	16-17	(Page No.12					
		Cum	1	0.95	0.95	0.25	0.23		
		Cum	1	0.75 (1	0.75 3.142x(0.09	0.475 x0.09)/4	0.27		
	Deduction for pipe portion	Cum	-1	1.00	0.01	, _	-0.01 0.49	5542.00	2746.00
						_	0.49	5542.00	2716.00
4	Providing and fabricating TMT r hooking, lapping and / or weldin binding wire of approved quality at the adjoining members wherever r as per design specification and direction.	g wherever r nd guage incl necessary incl	equired ading co uding a	l,placing in pos ost of binding w all laps and was	ition and ty ire and and tages ect., o	ying with horing to complete			
	Schedule Of Rates PRE,Myso	re Circle 20	12-13 (í Page No.VIII	Item No.7	9 & 2.11			
	Qty of Item No 3		0.49	@ 	80.00 Kg		39.20		
		MT					0.04	ECC07 E0	0000.00
							0.04	56697.50	2223.00

ESTIMATE FOR CONSTRUCTION OF THRUST BLOCK (1.00m x 1.00m)

SI. No	. Description of works.	Unit	No.	L	B 	D	Qty	Rate	Amount
1	KSRB 2-23.1 : Earthwork excavilines and electrical conduits eith Ordinary/hard soil not exceeding pits and trenches, stacking the ex 50 m. after breaking of clods com 2.3.5 Mechanical Means	her in pits or 1.5 m. in depth cavated soil cl	in trend n includid lear from	ches 1.5m and and dressing the edges of exc	d above in e bottom an avation with	width, in d sides of lead upto			
	Schedule Of Rates PWD,Mys	ore Circle 2	016-17	(Page No.7	Item No.2.	23.1)			
		Cum	1	1.40	1.40	1.13_	2.21 2.21	53.00	117.0
2	KSRB 4-1.3 : Providing and laying cement @ 180kgs, with 40mm a @0.85cum and fine aggregates @in layers not exceeding 15 cms. materials, labour, HOM of machin No. KBS 4.1, 4.2 (Page No.12 Ite	and down size 0 0.57cum mathick, well connery, curing on No.4.3)	e gradeo achine m npacted, omplete	d granite meta iixed, machine , in foundation as per specifi	al coarse ag mixed, con , including o cations. Spe	gregates crete laid cost of all			
	Item No.4.3)	Cum				0.10	0.20	4867.00	072.0
		Culii	1	1.40	1.40	0.10	0.20	4007.00	9/3.0
3	KSRB 4-1.5 : Providing and laying cement @ 300kgs, with 20mm a @0.64cum and fline aggregates IS9103-1999 Reaffirmed-2008, m cms. thick, well compacted, in following the HOM of machlinery, curing 4.1, 4.2	g in position p and down size @ 0.43cum, nachline mixed bundation,plint	lain ceme graded with su d, concre h and c	nent concrete d granite meta uperplastisiser ete laid in laya ills, including	of mix M20 of mix M20 of mix M20 of all coarse ago @3lts confers not exceed cost of all of all of mix M20 of m	with OPC ggregates firming to reding 15 materials,	0.20	4007.00	973.0
3	cement @ 300kgs, with 20mm a @0.64cum and fline aggregates IS9103-1999 Reaffirmed-2008, m cms. thick, well compacted, in follabour, HOM of machlinery, curin 4.1, 4.2 Schedule Of Rates PWD,Mys	g in position p and down size @ 0.43cum, nachline mixed bundation,plint ng complete a	lain ceme e graded with su d, concre h and c s per sp	nent concrete of granite metal uperplastisiser ete laid in layoutlis, including pecifications. S	of mix M20 of mix M20 of mix M20 of all coarse against confers not exceptions of all of pecification	with OPC ggregates firming to reding 15 materials,	0.20	4007.00	973.0
3	cement @ 300kgs, with 20mm a @0.64cum and fline aggregates IS9103-1999 Reaffirmed-2008, m cms. thick, well compacted, in follabour, HOM of machlinery, curin 4.1, 4.2	g in position p and down size @ 0.43cum, nachline mixed bundation,plint ng complete a	lain ceme e graded with su d, concre h and c s per sp	nent concrete of granite meta uperplastisiser ete laid in layout lills, including pecifications. So	of mix M20 sal coarse ag @3lts confers not exce cost of all is specification	with OPC ggregates irming to reding 15 materials, No. KBS		4007.00	973.0
3	cement @ 300kgs, with 20mm a @0.64cum and fline aggregates IS9103-1999 Reaffirmed-2008, m cms. thick, well compacted, in follabour, HOM of machlinery, curin 4.1, 4.2 Schedule Of Rates PWD,Mys	g in position p and down size @ 0.43cum, nachline mixed bundation,plint ng complete a	lain ceme e graded with su d, concre h and c s per sp	nent concrete d granite meta uperplastisiser ete laid in laye ills, including ecifications. S (Page No.12	of mix M20 of all coarse age (@3lts confers not exceed cost of all interpretation of the cost of the c	with OPC ggregates irming to seding 15 materials, No. KBS	0.36	4007.00	973.0
3	cement @ 300kgs, with 20mm a @0.64cum and fline aggregates IS9103-1999 Reaffirmed-2008, m cms. thick, well compacted, in follabour, HOM of machlinery, curin 4.1, 4.2 Schedule Of Rates PWD,Mys	g in position p and down size @ 0.43cum, nachline mixed oundation,plint ng complete a core Circle 20	lain cerre graded with sulf, concrete hand cos per sp	nent concrete of granite metaluperplastisiser ete laid in layerills, including eccifications. Solutions (Page No.12) 1.20 1.00	of mix M20 sal coarse ag @3lts confers not exce cost of all is specification	with OPC garegates firming to seeding 15 materials, No. KBS		4007.00	973.0
3	cement @ 300kgs, with 20mm a @0.64cum and fline aggregates IS9103-1999 Reaffirmed-2008, m cms. thick, well compacted, in follabour, HOM of machlinery, curin 4.1, 4.2 Schedule Of Rates PWD,Mys	g in position p and down size @ 0.43cum, nachline mixed oundation,plint ng complete a core Circle 20	lain cerre graded with sulf, concrete hand cos per sp	nent concrete of granite metaluperplastisiser ete laid in layerills, including eccifications. Solutions (Page No.12) 1.20 1.00	of mix M20 sal coarse ag @3lts confers not exceost of all in pecification 1.20 1.00	with OPC garegates firming to seeding 15 materials, No. KBS	0.36	4007.00	973.0
3	cement @ 300kgs, with 20mm a @0.64cum and fline aggregates IS9103-1999 Reaffirmed-2008, m cms. thick, well compacted, in following HOM of machlinery, curin 4.1, 4.2 Schedule Of Rates PWD, Mys Item No.4.5)	g in position p and down size a @ 0.43cum, nachline mixed oundation,plint ng complete a core Circle 26 Cum Cum	e graded with su d, concre h and c s per sp 016-17	nent concrete of granite meta- uperplastisiser ete laid in layer ills, including pecifications. So 1.20 1.00 (3.1	of mix M20 sal coarse ag @3lts confers not exceost of all impecification 2 1.20 1.00 42x0.2x0.2)	with OPC garegates firming to seeding 15 materials, No. KBS	0.36 0.48	5542.00	4489.0
3	cement @ 300kgs, with 20mm a @0.64cum and fline aggregates IS9103-1999 Reaffirmed-2008, m cms. thick, well compacted, in following HOM of machlinery, curin 4.1, 4.2 Schedule Of Rates PWD, Mys Item No.4.5)	g in position pand down size i @ 0.43cum, nachline mixed bundation,plint ng complete act Cum Cum Cum Cum reinforcement ng wherever is and guage inclinecessary ince	e graded with sult, concrete and cost per sponsored and cost per spo	nent concrete of granite meta uperplastisiser ete laid in layout ills, including pecifications. So 1.20 1.00 (3.1 1.00 etc.) arg, straightening, placing in post of binding all laps and wa	of mix M20 sal coarse ag @3lts confers not excel cost of all is pecification 2 1.20 1.00 42x0.2x0.2) 0.03 ng cutting, sition and to wire and and stages ect.,	with OPC agregates irming to be be ding 15 materials, No. KBS 0.25 0.475 4 bending, ying with shoring to complete	0.36 0.48 -0.03		
	cement @ 300kgs, with 20mm a @0.64cum and fline aggregates IS9103-1999 Reaffirmed-2008, m cms. thick, well compacted, in following HOM of machlinery, curing 4.1, 4.2 Schedule Of Rates PWD, Mys. Item No.4.5) Deduction for pipe portion Providing and fabricating TMT hooking, lapping and / or welding binding wire of approved quality at the adjoining members wherever as per design specification and directions.	g in position pand down size i @ 0.43cum, nachline mixed coundation,plint ng complete act Cum Cum Cum Cum reinforcement ng wherever is and guage incl necessary incrections (laps a	e graded with surface with surface with surface with and control of the surface with a surface w	nent concrete of granite meta- uperplastisiser ete laid in layer ete laid e	of mix M20 sal coarse ag @3lts confers not excel cost of all in pecification 2 1.20 1.00 42x0.2x0.2) 0.03 Ing cutting, sition and to wire and and stages ect., emeasured as	with OPC ggregates firming to beding 15 materials, No. KBS 0.25 0.475 4 bending, ying with shoring to complete and paid)	0.36 0.48 -0.03		
	cement @ 300kgs, with 20mm a @0.64cum and fline aggregates IS9103-1999 Reaffirmed-2008, m cms. thick, well compacted, in following HOM of machlinery, curind 4.1, 4.2 Schedule Of Rates PWD, Mys. Item No.4.5) Deduction for pipe portion Providing and fabricating TMT hooking, lapping and / or welding binding wire of approved quality at the adjoining members wherever as per design specification and directions.	g in position pand down size i @ 0.43cum, nachline mixed coundation,plint ng complete act Cum Cum Cum Cum reinforcement ng wherever is and guage incl necessary incrections (laps a	e graded with surface with surface with surface with and control of the surface with a surface w	nent concrete of granite meta- uperplastisiser ete laid in layer ete laid e	of mix M20 sal coarse ag @3lts confers not excel cost of all in pecification 2 1.20 1.00 42x0.2x0.2) 0.03 Ing cutting, sition and to wire and and stages ect., emeasured as	with OPC ggregates firming to beding 15 materials, No. KBS 0.25 0.475 4 bending, ying with shoring to complete and paid)	0.36 0.48 -0.03		

SI. No.	Description of works.	Unit	No.	L	В	D	Qty	Rate	Amount
5	Refilling the basement and pipelline excavation including watering, Consorthe surplus earth with a lead of 200 m	olidation in							
	Schedule Of Rates PRE, Mysore	Circle 20	012-13 (I	Page No.3	Item No.1.6)			
	Qty of Item No 1	Cum					2.21		
						-	2.21	61.00	135.00
6	Miscelleneous and rounding off								612.00
	hellenjak		pu					_ _	10000.00
	ਨ	ಾಮೀಣ ಕು	ಡಿಯುವ ಸಿ	ಪಾಲಕ ಇಂಡ ನೀರು ಮತ್ತು ಶ್ರೀರಂಗಪಟ್ಟ	ನೈರ್ಮಲ್ಯ				

Koushik Consultant

Panchayath Raj Englineering Mysore Circle 2012-2013 ,PWD SR Mysore Circle 2016-2017 & KUWS & DB SR 2015-2016

SI No	Item of Work	Item No	Page No	Unit	Zone-1
	CONCRETE AND masonry WORKS				
1	Earth work excavation for foundation and removing the excavated stuff to a distance not exceeding 50 mtrs and with a lift upto 1.50 mtrs. Including shoring, strutting, barricading, danger lighting etc., complete By Manual means	1,1	ı		
2	In Ordinary Soil	1,1,1	1	cum	123.00
3	In Hard Soil	1.1.2	1	cum	171.00
4	In Ordinary rock without blasting	1.1.3	1	cum	395.00
5	In Hard rock with blasting	1.1.4	1	cum	409.00
6	In Hard rock by chiselling and Wedging (Where blasting is prohibited)	1.1.5	i	cum	820.00
7	In Marshy soil	1.1.6	i	cum	319.00
8	Earth work excavation for foundation of structure as per drawing and technical specification including setting out, construction of shoring, strutting barricading, danger lighting, bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising the remaining earth locally of the work etc, complete by Mechanical Means.	1.3	2	Cum	317.00
9	Ordinary/ Hard soil (upto 3 mtrs)	1.3.1	2	cum	30.00
10	Hard soil (upto 3 mtrs)		2	cum	30.00
11	Ordinary rock (not requiring blasting)	1.3.2	2	cum	40.00
12	Hard rock (requiring blasting)	1.3.3	2	cum	500.00
13	in Marshy soil	1.3.4	2		
14	Earthwork excavatin for pipelline trenches including depositing on bank upto a lead of 50 mtrs. Including shoring and strutting, danger lighting and using sight rails and boning rods at every 100 mtrs. Wherever necessary as directed in the following strata By Manual means	1.2	1	cum	135,00
15	In Ordinary soil	1,2,1	1	cum	135.00
16	In hard soil	1.2.2	1	cum	188.00
17	In Orinary rock without blasting	1.2.3	1	cum	434.00
18	In Hard rock with blasting	1.2.4	<u> </u>	cum	
19	In Hard rock by chiselling and Wedging	1.2.5	2	57	450.00
20	In Marshy soil			cum	902.00
20	Earth work in excavation for water supply and sanitary lline, electrica conduits either in pits or trenches (Upto 601mm	1.2.6	2	cum	351.00
21	trench width) as per drawing and technical specification including setting out construction of shoring, strutting barricading, danger lighting, bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising the remaining earth locally of the work in the following clasification by Mechanical Means	1.4	3		
22	Ordinary/ Hard soil - (Depth upto 3 mtrs)	1.4.1	3	cum	45.00
23	Ordinary rock (not requiring blasting)	1.4.2	3	cum	60.00
24	Hard rock (requiring blasting)	1.4.3	3	cum	750.00
25	In Marshy soil	1.4.4	3	cum	202.00
26	Earth work in excavation for water supply and sanitary lline, electrica conduits either in pits or trenches (from 601mm to 1500mm trench width) as per drawing and technical specification including setting out construction of shoring, strutting barricading, danger lighting, bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising the remaining earth locally of the work in the following clasification by Mechanical Means	1.5	3		202.00
27	Ordinary/ Hard soil - (Depth upto 3 mtrs)	1.5.1	3	cum	38.00
28	Ordinary rock (not requiring blasting)	1.5.2	3	cum	50.00
29	Hard rock (requiring blasting)	1.5.3	3	cum	625.00
30	In Marshy soil	1.5.4	3	cum	169.00
31	Cutting of road surface for pipelline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the following classification.	1.7	3	- Cuin	107.00
32	Cutting macadam road Surface	1:7:1	3	cum	174.00
33	Cutting Asphalt surface road Surface	1,7.2	3	cum	225.00
34	Cutting in Cement Concrete road Surface	1.7.3	3	cum	451.00
35	Refilling the basement and pipelline trenches with selected available earth from trench excavation including watering, Consolidation in layers of 15 cm thick including disposing of the surplus earth with a lead of 200 meters.	1.6	3	Cum	61.00
36	Providing murrum or sand bedding for the pipelline including watering and consolidation by punners etc. complete with all lead and lift, (in black cotton soil and rock reaches).	1.9	4	Cum	78.00
37	Providing and laying granite or basalt or trap jelly cement concrete using 40 mm and down size jelly for foundation laid in 15 cm thick layers and well cum compacted including mixing by using hand mixers, curing etc. complete as per specifications. Cement concrete M10	2.1	6	Cum	3864.00
38	Providing and laying granite or trap or basalt jelly Cement concrete using 40 mm and down size jelly for foundation laid in 15 cm thick layers and well compacted including machline mixing, curing etc. complete as per specifications. Cement concrete M10	2.2	6	Cum	3984.00

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SI No	Item of Work	Item No	Page No	Unit	Zone-1
39	Providing and constructing granite or trap or basalt or sand stone uncoursed rubble stone masonry with CM 1:6 proportion with bond stones at 2 m apart for foundation including curing etc., complete as per specifications.	2.3	6	Cum	2291.00
40	Providing and constructing granite or trap or basalt or Sand stone, coursed rubble second sort size stone masonry with CM 1:6 proportion, courses not less than 20 cm high with bond stones at 2 M apart in each course, edges of stone chisel dressed and all comers 2 lline dressed 5 cms wide on each face including scaffolding curing etc., complete as per specifications. For Basement		7	Cum	2997.00
41	Providing and laying granite or trap or basalt jelly cement concrete M-10 proportion on using 20 mm and down size jelly including machline mixing, laying tamping, curing and plastering for exposed face with cement mortar 1:4 proportion and with necessary centering, form work etc., complete	2.6	7	Cum	
42	Providing and laying granite or trap or basalt jelly cement concrete M-10 proportion on using 20 mm and down size jelly including machline mixing, laying tamping, curing and plastering for exposed face with cement mortar 1:4 proportion and with necessary centering, form work etc., complete For Basement	2.6.1	7	Cum	4130.00
43	Providing and laying granite or trap or basalt jelly cement concrete M-10 proportion on using 20 mm and down size jelly including machline mixing, laying tamping, curing and plastering for exposed face with cement mortar 1:4 proportion and with necessary centering, form work etc., complete For Cill coping bond slabs	2.6.2	7	Cum	4272.00
44	Providing and laying granite or trap or basalt jelly vibrated cement concrete M-15 proportion using 20 mm and down size jelly including machline mixing, laying, vibrating, tampering, curing and smooth finished for exposed faces with CM 1:3 for tap plaster finished and with necessary centering, form work etc., for flooring of G.L.S.R. cills, coping, bond slab and for any other such work.		7	Cum	4676.00
45	Providing and laying vibrated cement concrete of design mix M-20 proportion for RCC work excluding cost of reinforcement with 20 mm and down size of broken granite or trap or basalt or any other approved hard jelly with Super plasticiser @ 3 ltrs confirming to IS 9103-1999 Reaffirmed 2008 including cost and conveyance of all materials including form work, centering scaffolding cement mortar plastering 1:3 proportion, 20 mm thick for inside including machline mixing , vibrating, curing making construction joint wherever necessary and giving satisfactory water proof testing etc., (Exclusive of cost of steel & fabrication charges) (KSR84.2.2). For Flat or sloping floor slab		8	Cum	5414.00
46	For Vertical side walls	2.8.2	8	Cum	
47	Providing and laying vibrated cement concrete of design mix M-30 proportion for RCC work excluding cost of reinforcement with 20 mm and down size of granite of trap or basalt or any other approved hard jelly with Super plasticiser @ 3ltrs confirming to IS 9103-1999 Reaffirmed - 2008 including cost and conveyance of all materials including form work centering scaffolding, cement mortar plastering 1:3 proportion, 20 mm thick for inside including machline mixing, vibrating, curing making construction joint wherever necessary and giving satisfactory water proof testing etc. (Exclusive of cost of steel & fabrication charges). For vertical side walls (M-30)		9	cum	6634.00
48	Providing and laying vibrated cement concrete of design mix M-30 proportion for RCC work excluding cost of reinforcement with 20 mm and down size of granite of trap or basalt or any other approved hard jelly with Super plasticiser @ 3ltrs confirming to IS 9103-1999 Reaffirmed - 2008 including cost and conveyance of all materials including form work centering scaffolding, cement mortar plastering 1:3 proportion, 20 mm thick for inside including machline mixing, vibrating, curing making construction joint wherever necessary and giving satisfactory water proof testing etc. (Exclusive of cost of steel & fabrication charges). For flat or floor slab (M-30)	2.10.1	9	cum	5774.00
49	Providing and laying using design mix M-30 cement concrete using clean graded granite or trap or basalt jelly 20 mm and downsize with Superplasticiser @ 3 ltls confirming to IS 9103-1999 Reaffirmed - 2008 for RCC -roof slab and canopies for all spans with steel or plank centering and sheltering including machline mixing, lifting, laying, vibrating, tamping, Plastering to ceiling 12 mm thick in CM 1:3 curing etc., complete (exclusive of cost and steel and fabrication charges)	2.14	11	Cum	6292.00
50	Providing pointing to stone masonry walls in cm 1:3 proportion after racking the joints to a depth of 20mm and nicely lining including scaffolding, curing etc. complete as per specification.	2.15	11	Sqm	70.00
51	Providing plastering to masonry including providing and removing scaffolding, rounding off all corners whenever required smooth rendering, curing etc., complete. For Masonry plain plastering 12 mm thick in CM 1:3	2,16.2	11	Sqm	152.00
52	For Masonry plain plastering 20 mm thick in CM 1:3	2.16.1	11	Sqm	214.00
53	Laying cast iron pipes and specials of all classes without earth work, true to lline and level including rolling and lowering into trenches and perfect linking of joints.	3.2	13		
55	80mm 100mm	3,2.1	13	Mtr	21.50
56	150mm	3.2.2	13	Mtr	22.50
57	200mm	3.2.3	13	Mtr	30.00
58	Providing and installing at site of work P.V.C. 4Ksc pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15 cm with gravel or selected earth available from the excavation etc., complete.	, 3,4,1	14	Mtr	42.00
59	63 mm dia pipe	3.4.1 (a)	14	Mtr	78.00

Simulate Simulate Signature Signat		thom of Work	T T T T T T T T T T T T T T T T T T T	Tariam,r.srie	Tuyriaiii aric	other to villa
3 mm dis gipe	SI No	Item of Work	Item No	Page No	Unit	Zone-1
50 50 mm da pipe	60	75 mm dia pipe	3.4.1 (b)	14	Mtr	106.00
10 mm dia pipe	61					
15 15 15 15 15 15 15 15	62					
200 mm dispipe			3.4.1 (e)	15	Mtr	
Provising and Installing at alse of work P.V.C. pipes including expensed programs for programs of pr			3.4.1 (f)	15	Mtr	+
Control of the tracking, laying to so lam, level and perfect liming at joints less proof including jointing of approved to selected earth avoilable from the securation etc., complete. 3,42 to 15	65		3.4.2 (g)	15	Mtr	552.00
58 mm dia pipe	66	lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15		15		
6.6 17 from dispape	67	63 mm dia pipe	3.4.2 (a)	15	Me	104.00
80 mm dia pipe	68	75 mm dia pipe				
110 mm da pipe	69	90 mm dia pipe				
140 mm dia pipe	70	110 mm dia pipe				
150 mm dia pipe	71	140 mm dia pipe		-		
220 mm dia pipe	72	160 mm dia pipe				
Providing and installing at site of work PV.C. pipes including cotted programs of specials and labour, including covering into trenches, larging tub to line, level and profest linking at justice last provide indusing planting	73	1				
75 mm dia pipe	74	lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15 cm with gravel or selected earth available from the excavation etc., complete.				030.00
75 mm dia pipe	75		3.4.3 (a)	15	Mtr	132.00
77 30 mm dia pipe 3.4.3 (c) 15 Mtr 2.54.00			3.4.3 (b)	15	Mtr	
110 mm dia pipe			3.4.3 (c)	15	Mtr	
150 mm da pipe			3.4.3 (d)	15	Mtr	434.00
200 mm dia pipe		<u>, </u>	3.4.3 (e)	15	Mtr	561.00
Labour charges for making flanged joints for cast iron pipes and specials with rubber insertion and necessary bolts and nuts and giving necessary hydraulic pressure test including jointing materials 3,6 16 Each 79,00			3.4.3 (f)	15	Mtr	
Labour charges for making flanged joints for cast iron pipes and specials with rubber insertion and necessary boils and giving necessary hydraulic pressure test including jointing materials 3.6	81		3.4.3 (g)	15	Mtr	1225.00
Above 80 mm & upto 100mm 3.62 16 Each 87,00		nuts and giving necessary hydraulic pressure test including jointing materials	3,6	16		
Above 150 mm & upto 150mm 3.6.3 16 Each 95.00		<u> </u>	3.61	16	Each	79.00
Above 150 mm & upto 200mm 3.6 4 16 Each 103.00			3,62	16	Each	87.00
Siving hydraulic test for C.1 / R.C. / P.V.C / H.D.P.E or A.C pipellines to the pressure equal to 2 times the working pressure including cost of supply of water 8 Upto80mm 8 Above 80 mm & upto 100mm 8 Above 100 mm & upto 100mm 9 Above 150 mm & upto 150mm 9 Above 150 mm & upto 150mm 9 Above 150 mm & upto 150mm 9 Above 200 mm dia 1 Labour charges for giving 50mm dia G.I pipe end connection from rising main to cistem including cutting, threading, conveying, laying and jointing etc., complete, inclusive of fixing 4 Nos of 20mm dia G.I Pipes with layer to the cistem. Providing and laying Reinforced cement concrete of mix design of M-25 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, cusing, smooth finishing to the required plumb and face in CM.13 proportion wherever necessary etc., complete for RCC rafts raft ring beam, column footing, columns below ground level (exclusive cost of steel and fabrication charges) Providing and laying Reinforced cement concrete of mix design of M-25 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, cuing, smooth finishing to the required plumb and face in CM.13 proportion wherever necessary etc., complete as per design specification for staging, columns and braces above ground level (exclusive cost of steel and fabrication charges) 9 Alo m staging 4 2b 2 22-23 Cum 7350.00 9 D) 7.5 m staging 4 2b 4 2b 2 22-23 Cum 7755.00 9 D) 17.5 m staging 4 2b 6 22-23 Cum 8156.00 10 D) 15.0 m staging 4 2b 7 22-23 Cum 8156.00 10 D) 15.0 m staging 4 2b 7 22-23 Cum 8156.00 10 D) 15.0 m staging			3.6 3	16	Each	95.00
Pressure including cost of supply of water 3.7 16 Mitr 2.00	86		3.64	16	Each	103.00
Above 80 mm & upto 100mm 3,7.2 16 Mtr 2,50		pressure including cost of supply of water	3.7	16		
Above 100 mm & upto 100mm 3.7.2 16 Mtr 2.50	88	<u> </u>	3.7.1	16	Mtr	2.00
Above 100 mm & upto 150mm Above 150 mm & upto 150mm Above 200 mm & upto 150mm Above 200 mm & upto 200mm Labour charges for giving 50mm dia G.I pipe end connection from rising main to cistem including cutting, threading, conveying, laying and jointing etc., complete, inclusive of fixing 4 Nos of 20mm dia G I pipes with laps to the cistem. Providing and laying Reinforced cement concrete of mix design of M-25 Grade using clean graded granite or trap or basalt; jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete for RCC rafts raft ring beam, column footing, columns below ground level (exclusive cost of steel and fabrication charges) Providing and laying Reinforced cement concrete of mix design of M-25 Grade using clean graded granite or trap or basalt; jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete as per design specification for staging, columns and braces above ground level (exclusive cost of steel and fabrication charges) 95 finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete as per design specification for staging, columns and braces above ground level (exclusive cost of steel and fabrication charges) 96 a)6 m staging 97 b)7.5 m staging 98 c)9.0 m staging 99 d)10.5 m staging 99 d)10.5 m staging 90 d)10.5 m staging 91 d)2.0 m staging 91 d)10.5 m staging 92 d)10.5 m staging 93 d)10.5 m staging 94 d)10.5 m staging 94 d)10.5 m staging	89		3.7.2	16	Mtr	
Above 200 mm dia G I Pipes with Above 21 mm dia G I	90					
Above 200 mm dia Labour charges for giving 50mm dia G.I pipe end connection from rising main to cistem including cutting, threading, conveying, laying and jointing etc., complete, inclusive of fixing 4 Nos of 20mm dia G I Pipes with laps to the cistem. Providing and laying Reinforced cement concrete of mix design of M-25 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete for RCC rafts raft ring beam, column footing, columns below ground level (exclusive cost of steel and fabrication charges) Providing and laying Reinforced cement concrete of mix design of M-25 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete as per design specification for staging, columns and braces above ground level (exclusive cost of steel and fabrication charges) 96 a)6 m staging 4.2b.1 22-23 Cum 7370.00 97 b)7.5 m staging 4.2b.3 22-23 Cum 7753.00 98 c)9.0 m staging 4.2b.4 22-23 Cum 7753.00 101 0)15.0 m staging 4.2b.5 22-23 Cum 8156.00 102 g)18.0 m staging 4.2b.6 22-23 Cum 8366.00 103 b)21.0 m staging	91	Above 150 mm & upto 200mm		$\overline{}$		
Labour charges for giving 50mm dia G.I pipe end connection from rising main to cistem including cutting, threading, conveying, laying and jointing etc., complete, inclusive of fixing 4 Nos of 20mm dia G I Pipes with laps to the distem. Providing and laying Reinforced cement concrete of mix design of M-25 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick , well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete for RCC rafts raft ring beam, column footing, columns below ground level (exclusive cost of steel and fabrication charges) Providing and laying Reinforced cement concrete of mix design of M-25 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete as per design specification for staging, columns and braces above ground level (exclusive cost of steel and fabrication charges) 96 a)6 m staging 4.2b.1 22-23	92					
basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete for RCC rafts raft ring beam, column footing, columns below ground level (exclusive cost of steel and fabrication charges) Providing and laying Reinforced cement concrete of mix design of M-25 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete as per design specification for staging, columns and braces above ground level (exclusive cost of steel and fabrication charges) 96 a)6 m staging 9 b) 7.5 m staging 9 c) 9.0 m staging 4 2b.1 22-23 Cum 7370.00 7359.00 9 d) 10.5 m staging 4 2b.4 22-23 Cum 7753.00 9 d) 10.5 m staging 4 2b.5 22-23 Cum 7952.00 100 101 p) 15.0 m staging 4 2b.6 22-23 Cum 8166.00 102 g) 18.0 m staging 4 2b.7 22-23 Cum 8881.00	93	cutting,threading,conveying, laying and jointing etc., complete, inclusive of fixing 4 Nos of 20mm dia G I Pipes with laps to the cistem.				
basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete as per design specification for staging, columns and braces above ground level (exclusive cost of steel and fabrication charges) 96 a)6 m staging 97 b) 7.5 m staging 98 c) 9.0 m staging 4.2b.2 22-23 Cum 7370.00 98 c) 9.0 m staging 4.2b.3 22-23 Cum 7753.00 99 d) 10.5 m staging 4.2b.4 22-23 Cum 7753.00 100 e) 12.0 m staging 4.2b.5 22-23 Cum 8156.00 101 f) 15.0 m staging 4.2b.7 22-23 Cum 8156.00 102 g) 18.0 m staging 4.2b.7 22-23 Cum 8366.00 103 b) 21.0 m staging	94	basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete for RCC rafts raft ring.	4_1(b)	21	Cum	6322.00
97 b) 7.5 m staging 4.2b.2 22-23 Cum 7559.00 98 c) 9.0 m staging 4.2b.3 22-23 Cum 7753.00 99 d) 10.5 m staging 4.2b.4 22-23 Cum 7952.00 100 e) 12.0 m staging 4.2b.5 22-23 Cum 8156.00 101 f) 15.0 m staging 4.2b.6 22-23 Cum 8366.00 102 g) 18.0 m staging 4.2b.7 22-23 Cum 8581.00	95	basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete as per design.	4.2(b)	22-23		
97 b) 7.5 m staging 4.2b.2 22-23 Cum 7559.00 98 c) 9.0 m staging 4.2b.3 22-23 Cum 7753.00 99 d) 10.5 m staging 4.2b.4 22-23 Cum 7952.00 100 e) 12.0 m staging 4.2b.5 22-23 Cum 8156.00 101 f) 15.0 m staging 4.2b.6 22-23 Cum 8366.00 102 g) 18.0 m staging 4.2b.7 22-23 Cum 8581.00	96	a)6 m staging	4.25.1	22.22		#2#0 CC
98 c) 9.0 m staging 4.2b.3 22-23 Cum 7553.00 99 d) 10.5 m staging 4.2b.4 22-23 Cum 7952.00 100 e) 12.0 m staging 4.2b.5 22-23 Cum 8156.00 101 f) 15.0 m staging 4.2b.6 22-23 Cum 8366.00 102 g) 18.0 m staging 4.2b.7 22-23 Cum 8581.00 103 h) 21.0 m staging 4.2b.7 22-23 Cum 8581.00				+		
99 d) 10.5 m staging 4.2b.4 22-23 Cum 7952.00 100 e) 12.0 m staging 4.2b.5 22-23 Cum 8156.00 101 f) 15.0 m staging 4.2b.6 22-23 Cum 8366.00 102 g) 18.0 m staging 4.2b.7 22-23 Cum 8581.00						
100 e) 12.0 m staging 4.2b.5 22-23 Cum 8156.00 101 f) 15.0 m staging 4.2b.6 22-23 Cum 8366.00 102 g) 18.0 m staging 4.2b.7 22-23 Cum 8581.00 103 h) 21.0 m staging 22-23 Cum 8581.00						
101 f) 15.0 m staging 4.2b.6 22-23 Cum 8366.00 102 g) 18.0 m staging 4.2b.7 22-23 Cum 8581.00 103 h) 21.0 m staging 8581.00	100					
102 g) 18.0 m staging 4.2b.7 22-23 Cum 8581.00	101					
103 h) 21 0 m staging	102	g) 18.0 m staging	200		-	
			4.2b.8	22-23	Cum	8796.00

Providing and laying Reinforced cement concrete of mix design of M-30 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete as per design specification for staging, columns and braces above ground level (exclusive cost of steel and fabrication charges) 105 a)6 m staging 4.2.c. 106 b) 7.5 m staging 4.2.c. 107 c) 9.0 m staging 4.2.c. 108 d) 10.5 m staging 4.2.c. 109 e) 12.0 m staging 4.2.c. 110 f) 15.0 m staging 4.2.c. 111 g) 18.0 m staging 4.2.c. 112 h) 21.0 m staging 4.2.c. 113 kSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Rates for centering height more than 3.5	23 1 23 2 24 3 24 4 24 5 24 6 24	Cum Cum Cum	7503.00 7696.00
basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete as per design specification for staging, columns and braces above ground level (exclusive cost of steel and fabrication charges) 105 a)6 m staging 106 b) 7.5 m staging 107 c) 9.0 m staging 108 d) 10.5 m staging 109 e) 12.0 m staging 110 f) 15.0 m staging 111 g) 18.0 m staging 112 h) 21.0 m staging 113 KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Rates for centering height more than 3.5	1 23 2 24 3 24 4 24 5 24 6 24	Cum Cum Cum	7696.00
106 b) 7.5 m staging 4.2 c. 107 c) 9.0 m staging 4.2 c. 108 d) 10.5 m staging 4.2 c. 109 e) 12.0 m staging 4.2 c. 110 f) 15.0 m staging 4.2 c. 111 g) 18.0 m staging 4.2 c. 112 h) 21.0 m staging 4.2 c. 113 kSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Rates for centering height more than 3.5	2 24 3 24 4 24 5 24 5 24	Cum Cum Cum	7696.00
106 b) 7.5 m staging 4.2 c. 107 c) 9.0 m staging 4.2 c. 108 d) 10.5 m staging 4.2 c. 109 e) 12.0 m staging 4.2 c. 110 f) 15.0 m staging 4.2 c. 111 g) 18.0 m staging 4.2 c. 112 h) 21.0 m staging 4.2 c. 113 kSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Rates for centering height more than 3.5	2 24 3 24 4 24 5 24 5 24	Cum Cum Cum	7696.00
107 c) 9.0 m staging 4.2 c. 108 d) 10.5 m staging 4.2 c. 109 e) 12.0 m staging 4.2 c. 110 f) 15.0 m staging 4.2 c. 111 g) 18.0 m staging 4.2 c. 111 g) 18.0 m staging 4.2 c. 112 h) 21.0 m staging 4.2 c. 113 KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Rates for centering height more than 3.5	3 24 4 24 5 24 5 24	Cum Cum	
d) 10.5 m staging 4.2 c 109 e) 12.0 m staging 4.2 c 110 f) 15.0 m staging 4.2 c 111 g) 18.0 m staging 4.2 c 112 h) 21.0 m staging 4.2 c KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Rates for centering height more than 3.5	4 24 5 24 6 24	Cum	
e) 12.0 m staging 110 f) 15.0 m staging 4.2 c 111 g) 18.0 m staging 4.2 c 112 h) 21.0 m staging 4.2 c 113 KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Rates for centering height more than 3.5	5 24 5 24		7894.00
110 f) 15.0 m staging 4.2.c. 111 g) 18.0 m staging 4.2.c. 112 h) 21.0 m staging 4.2.c. KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Rates for centering height more than 3.5 4.29	5 24	Cum	8097.00 8305.00
g) 18.0 m staging 4.2.c. h) 21.0 m staging 4.2.c. KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Rates for centering height more than 3.5		Cum	8518.00
h) 21.0 m staging KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Rates for centering height more than 3.5		Cum	8737.00
surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Rates for centering height more than 3.5 4.29		Cum	8956.00
mtrs.	15	Sqm	0.50.00
114 -do-0 to 5 mtrs 4.29.2	! 15	Sqm	550.00
Providing and laying Reinforced cement concrete of mix design of M-25 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than '15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in C.M.1:3 proportion wherever necessary etc., complete as Per design and specification and giving satisfactory ,water proof test including construction joints wherever necessary as per the directions of the departmental Officers complete for ring beam, side walls, bottom dome or bottom slab, shell portion and bottom ribs (exclusive of cost of steel and fabrication charges and jointing materials)	25		
116 a)6 m staging 4.3b.1	25	Cum	11283.00
117 b) 7.5 m staging 4.36.2		Cum	11458.00
118 c) 9.0 m staging 4.3b.3		Cum	11633.00
119 d) 10.5 m staging 4,36,4		Cum	11808.00
120 e) 12.0 m staging 4.3b.5	25	Cum	11983.00
121 f) 15.0 m staging 4.3b.6	25	Cum	12158.00
122 g) 18.0 m staging 4.3b.7	26	Cum	12333.00
h) 21.0 m staging Providing and laying Reinforced cement concrete of mix design of M-30 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than '15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in C.M.1:3 proportion wherever necessary etc., complete as Per design and specification and giving satisfactory ,water proof test including construction joints wherever necessary as per the directions of the departmental Officers complete for ring beam, side walls, bottom dome or bottom slab, shell portion and bottom ribs (exclusive of cost of steel and fabrication charges and jointing materials)	26	Cum	12508.00
125 a)6 m staging 4.3c.1 126 b) 7.5 m staging	26	Cum	11416.00
127 C) 9.0 m storing	26	Cum	11591.00
129 d\ 10.5 m etaging	26	Cum	11766.00
130 a) 120 m etaging	26	Cum	11941.00
120 0 15 0 m storing	26	Cum	12116.00
131 g) 18.0 m staging 4.3c.6 131 g) 18.0 m staging 4.3c.7	26	Cum	12291.00
132 h) 21.0 m staging 4.3c.7	26	Cum	12466.00
Providing and laying Reinforced cement concrete of mix design of M-25 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete as per design and specifications etc., complete for top rib and top dome or top slab (exclusive cost of steel and fabrication charges)	27	Cum	12641.00
134 a)6 m staging		+	
4,40,1	28	Cum	9384.00
135 b) 7.5 m staging	28	Cum	9559.00
134 c) 0.0 m storing	, /×	Cum	9734.00
136 c) 9.0 m staging 4.4b.3		Cum	0000.00
136 c) 9.0 m staging 4.4b.3 137 d) 10.5 m staging 4.4b.4 138 e) 12.0 m staging 4.4b.4	28	Cum	9909.00
136 c) 9.0 m staging 4.4b.3 137 d) 10.5 m staging 4.4b.4 138 e) 12.0 m staging 4.4b.5 139 f) 15.0 m staging 4.4b.6		Cum	10084.00
136 c) 9.0 m staging 4.4b.3 137 d) 10.5 m staging 4.4b.4 138 e) 12.0 m staging 4.4b.5 139 0.15.0 m staging 4.4b.5	28		

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Si No	Item of Work	Item No	Page No	Unit	Zone-1
142	Providing and laying Reinforced cement concrete of mix design of M-30 Grade using clean graded granite or trap or basalt jelly of approved quality of 20mm and down size, with super plasticiser @ 3lts confirming to IS-9103-2008 in layers of not more than 15 cms thick, well consolidated including centering, formwork, vibrating, curing, smooth finishing to the required plumb and face in CM.1:3 proportion wherever necessary etc., complete as per design and specifications etc., complete for top rib and top dome or top slab (exclusive cost of steel and fabrication charges)	4.4C	28		
143	a)6 m staging	4.4c.1	28		0505.00
144	b) 7.5 m staging	4.4c.1	28	Cum	9525.00
145	c) 9.0 m staging	4.4c.3	28	Cum	9700.00
146	d) 10.5 m staging	4.4c.4	28	Cum	9875.00
147	e) 12.0 m staging	4.4c.5	28	Cum	10050.00
148	f) 15.0 m staging	4.4c.6	28	Cum	10225.00
149	g) 18.0 m staging	4.4c.7	28	Cum	10575.00
150	h) 21.0 m staging	4.4c.8	28	Cum	10750.00
151	Providing and fabricating TMT reinforcement including, straightening cutting, bending, hooking, lapping and / or welding wherever required, placing in position and tying with binding wire of approved quality and guage including cost of binding wire and anchoring to the adjoining members wherever necessary including all laps and wastages ect., complete as per design specification and directions (laps and wastages not to be measured and paid)	79 & 2.11	VIII		10730.00
152	a) Cost of steel per quintal as per schedule A		2711		
153	b) Add 5% towards Laps		VIII	MT	43400.00
154	c) Add 5% towards Wastage		10	MT	2170.00
155	d) Deduct 1/4 of (c) for realisation from wastage		10	MT	2170.00
156	e) Fabrication charges		10	MT	-542.50
157	f) Fabrication charges (for over head tank only)		29		9500.00
158	g) Grand tlotal	2.11.f.	10	MT	11000.00
159	g) for over head tank	4.5	29	MT	56697.50 58197.50
160	Providing and fixing M.S. Ladder 45 cm wide with an angle iron and 20mm M.S. Bars at 25 cms C/C duly fixing by holes to full depth of angle & welding with necessary supports and angle iron of same section at braces including fixing in ground with CC (M-15) bed and 2 coats of non-poisonous anti-corrosive bituminous, paints as directed. (including inserting in the angle iron and welding)outside	4.6 a	29	Mtr	1823.00
161	Ladder inside the contaliner: Providing and Anodised Aluminium ladder, using 65 mm x 32 mm (approx.) "C" Section x 3.0 mm of ladder side channels in to 25mm dia flutal pipe for rungs at 250 mm C/C ladder flixed at an angle of 70 degrees to horizontal including necessary 25mm dia., G.I. shutters with necessary G.I. fasteners for bracing the ladders to lhe Tank walls to prevent buckling of lhe ladder with necessary C.C. (M15) bed for embedding the ladder bottom complete	4.6 b	29	Mtr	2609.00
162	Providing and fixing G.I. pipe railing 32 mm dia G.I. pipe 'B' Class in two rows of roof dome, flat slab of landings of elevated storage reservoir including cutting. welding. threading. painting, embedding in C.M. pillars with all lead and lifts etc., complete.	4.7	30	Mtr	451.00
163	Providing and constructing RCC hexagonal ventilator final for RCC overhead tank the finial to be constructed with CC (M-20) proportion using 20mm and down size jelly with reinforcement using 6mm dia., M.S rods 4 nos., for each of the pillars both ways for full width of doom at 12cm c/c, the ventilator to be of 0.45 M x 0.5 M size provided with 25mm x 25mm x 5mm M.S. frame welded with diamond mesh to its full width and depth fully covered with aluminum mosquito mesh finished smooth with CM 1:3 proportion to required shape and size and ornamental finish including two coats of anti-corrosive paint for frame and mesh and two coats of cement paint matching to over head tank ect,. complete	4.8	30	Each	3970.00
164	Providing and fixing 60x60 cms M.S. inspection door with necessary M.S. frame made out of M.S. angle 50x50x6mm and M.S. shutters of 31.5mm or B.G.10 thick with hinges on top and locking arrangement, painting etc., complete (for RCC overhead tank and G.L.S.R.)	4.9	30	Each	1787.00
165	Providing and fixing enameled gauge plate 3 mm thick, 0.23 M wide with plastic float thick plastic indicator and flexible nylon wire etc., complete to 2.50 M height.	4,10	30	Mtr	2169.00
166	Labour charges for fixing puddle flanges in position for R.C.C. tanks including hoisting (80mm to 200 mm)	4.11	31	Each	188.00
167	Labour charges for hoisting C.I. flanged pipes in position aligning to plumb and jointing for R.C.C. overhead tanks (80 mm to 200 mm)	4.12	31	Each	166.00
168	Providing 2 coats of snowcem painting over one coat of primer including scrapping the exposed faces, removing loose plastering removal of vegetations, fungus, cleaning the surface, replastering wherever required in C.M 1:3 to the required shape with necessary scaffolding & curing etc. (Including cost of materials)	4.14	31	Sqm	189.00
169	Providing & fixing copper lightning arrester with five spikes and 20mm dia copper tube or suitable length of aluminium strip of spike 25mmx3mm including grounding as per KEB specification. The aluminilm strip is to be encased in G. I conduct pipe or 40mm dia., 6 M long suitably jolined by collar wiih all specials, fixed to one of the columns etc.complete up to 6 M staging.	4,15	31	Each	7300.00
170	Earthwork excavation including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1.5 Mtr etc complete	81	41		

	Item of Work			T	
SI No		Item No	Page No	Unit	Zone-1
171	Earthwork excavaton in soil, clay sand, shedu soil, soft murrum, including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1.5 Mtr etc complete	8,1	41		
172	Upto 1.50 M	8.1.a	41	Cum	144.00
173	Add 24 for additional Lift charges	8.1.b	41	-	144.00
174	1.50 to 3.00 M	8.1.c	41	Cum	168.00
175	3.00 to 4.50 M	8.1.d	41	Cum	192.00
176	4.50 to 6.00 M	8.1.e	41	Cum	216,00
177	6.00 to 7.50 M	8.1.f	41	Cum	240.00
178	7.50 to 9.00 M	8.1.g	41	Cum	264.00
179	9.00 to 10.50 M	8.1.h	41	Cum	288.00
180	Add 49 for additional Lift charges		41		-
181	10.50 to 12.00 M	8.1.i	41	Cum	337.00
182	12.00 to 13.50 M	8.1.j	41	Cum	386.00
183	13.50 to 15.00 M	8.1.k	41	Cum	435.00
184	15.00 to 17.50 M	8.1.I	41	Cum	484.00
185	Earthwork excavation in hard murrum, boulders, hard Katak including shoring strutting, barricading, danger lighting, bailing out water wherever necessary, with stacking the materials as directed up to a lead of 50 M & lift of 1.50 etc,.	8.2	41		404.00
186	Upto 1.50 M	8.2.a	41	Cum	174.00
187	Add 36 for additional depths	8.2.b	41		
188	1.50 to 3.00 M	8.2.c	41	Cum	210.00
189	3.00 to 4.50 M	8.2.d	41	Cum	246.00
190	4.50 to 6.00 M	8.2.e	41	Cum	282.00
191	6.00 to 7.50 M	8.2.f	41	Cum	318.00
192	7.50 to 9.00 M	8.2.g	41	Cum	354.00
193	9.00 to 10.50 M	8.2.h	41	Cum	390.00
194	Add 54 for additional Lift charges		41		
195	10.50 to 12.00 M	8,2.i	41	Cum	444.00
196	12.00 to 13.50 M	8.2.j	41	Cum	498.00
197	13.50 to 15.00 M	8.2.k	41	Cum	552.00
198	15.00 to 17.50 M	8.2.1	41	Cum	606.00
199	Earthwork excavation in soft rock including shoring, strutting, barricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed up to a lead of 50 M and tift of 1.5 M etc., complete	8.3	42		
200	Upto 1.50 M	8.3.a	42	Cum	390.00
201	Add 54 for additional depths	8.3.b	$\overline{}$	Cuin	370.00
202	1.50 to 3.00 M		42 I		
			42	Cum	444.00
203	3.00 to 4.50 M	8.3.c	42	Cum	444.00
204	3.00 to 4.50 M 4.50 to 6.00 M	8.3.c 8.3.d	42 42	Cum	498.00
204	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M	8.3.c 8.3.d 8.3.e	42 42 42	Cum Cum	498.00 552.00
204	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M	8.3.c 8.3.d 8.3.e 8.3.f	42 42 42 42	Cum Cum	498.00 552.00 606.00
204 205	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g	42 42 42 42 42 42	Cum Cum Cum Cum	498.00 552.00 606.00 660.00
204 205 206 207 208	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges	8.3.c 8.3.d 8.3.e 8.3.f	42 42 42 42	Cum Cum	498.00 552.00 606.00
204 205 206 207 208 209	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g	42 42 42 42 42 42 42	Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00
204 205 206 207 208 209 210	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h	42 42 42 42 42 42 42 42 42 42 42	Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00
204 205 206 207 208 209 210 211	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h	42 42 42 42 42 42 42 42 42 42 42 42	Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00
204 205 206 207 208 209 210	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h 8.3.i 8.3.i 8.3.i	42 42 42 42 42 42 42 42 42 42 42 42 42	Cum Cum Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00 930.00
204 205 206 207 208 209 210 211 212	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M 15.00 to 17.50 M Eadhwork excavation in hard rock requiring blasting including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1 5 Mtr etc comptete	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h	42 42 42 42 42 42 42 42 42 42 42 42	Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00
204 205 206 207 208 209 210 211 212 213	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M 15.00 to 17.50 M Eadhwork excavation in hard rock requiring blasting including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1 5 Mtr etc comptete	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h 8.3.i 8.3.i 8.3.j 8.3.k 8.3.l	42 42 42 42 42 42 42 42 42 42 42 42 42 4	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00 930.00 1002.00
204 205 206 207 208 209 210 211 212 213	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M 15.00 to 17.50 M Eadhwork excavation in hard rock requiring blasting including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1 5 Mtr etc comptete Upto 1.50 m Add 90 for additional depths	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h 8.3.i 8.3.j 8.3.k 8.3.l	42 42 42 42 42 42 42 42 42 42 42 42 42 4	Cum Cum Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00 930.00
204 205 206 207 208 209 210 211 212 213 214 215 216	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M 15.00 to 17.50 M Eadhwork excavation in hard rock requiring blasting including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1 5 Mtr etc comptete Upto 1.50 m Add 90 for additional depths 1.50 to 3.00 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h 8.3.i 8.3.j 8.3.k 8.3.l	42 42 42 42 42 42 42 42 42 42 42 42 42 4	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00 930.00 1002.00
204 205 206 207 208 209 210 211 212 213 214 215 216 217	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M 15.00 to 17.50 M Eadhwork excavation in hard rock requiring blasting including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1 5 Mtr etc comptete Upto 1.50 m Add 90 for additional depths 1.50 to 3.00 M 3.00 to 4.50 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h 8.3.i 8.3.j 8.3.k 8.3.l	42 42 42 42 42 42 42 42 42 42 42 42 42 4	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00 930.00 1002.00 616.00
204 205 206 207 208 209 210 211 212 213 214 215 216 217 218	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M Eadhwork excavation in hard rock requiring blasting including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1 5 Mtr etc comptete Upto 1.50 m Add 90 for additional depths 1.50 to 3.00 M 3.00 to 4.50 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h 8.3.i 8.3.j 8.3.k 8.3.l 8.4.a 8.4.a 8.4.c 8.4.d	42 42 42 42 42 42 42 42 42 42 42 42 42 4	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00 930.00 1002.00 616.00 706.00 796.00
204 205 206 207 208 209 210 211 212 213 214 215 216 217 218	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M 15.00 to 17.50 M Eadhwork excavation in hard rock requiring blasting including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1 5 Mtr etc comptete Upto 1.50 m Add 90 for additional depths 1.50 to 3.00 M 3.00 to 4.50 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h 8.3.i 8.3.j 8.3.k 8.3.l 8.4.a 8.4.c 8.4.c 8.4.d 8.4.e	42 42 42 42 42 42 42 42 42 42	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00 930.00 1002.00 616.00 706.00 796.00 886.00
204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M 15.00 to 17.50 M Eadhwork excavation in hard rock requiring blasting including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1 5 Mtr etc comptete Upto 1.50 m Add 90 for additional depths 1.50 to 3.00 M 3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h 8.3.i 8.3.j 8.3.k 8.3.l 8.4.a 8.4.c 8.4.c 8.4.d 8.4.c	42 42 42 42 42 42 42 42 42 42	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00 930.00 1002.00 616.00 706.00 796.00 886.00 976.00
204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M Eadhwork excavation in hard rock requiring blasting including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1 5 Mtr etc comptete Upto 1.50 m Add 90 for additional depths 1.50 to 3.00 M 3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h 8.3.i 8.3.j 8.3.k 8.3.l 8.4.a 8.4.a 8.4.c 8.4.c 8.4.c 8.4.c 8.4.c 8.4.c	42 42 42 42 42 42 42 42 42 42	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00 930.00 1002.00 616.00 706.00 796.00 886.00 976.00 1066.00
204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M 15.00 to 17.50 M Eadhwork excavation in hard rock requiring blasting including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1 5 Mtr etc comptete Upto 1.50 m Add 90 for additional depths 1.50 to 3.00 M 3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h 8.3.i 8.3.j 8.3.k 8.3.l 8.4.a 8.4.c 8.4.c 8.4.d 8.4.c	42 42 42 42 42 42 42 42 42 42	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00 930.00 1002.00 616.00 706.00 796.00 886.00 976.00
204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M Eadhwork excavation in hard rock requiring blasting including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1 5 Mtr etc comptete Upto 1.50 m Add 90 for additional depths 1.50 to 3.00 M 3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 145 for additional Lift charges 10.50 to 12.00 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h 8.3.i 8.3.j 8.3.k 8.3.l 8.4.a 8.4.a 8.4.c 8.4.c 8.4.d 8.4.c 8.4.d 8.4.e 8.4.f 8.4.g 8.4.h	42 42 42 42 42 42 42 42 42 42	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00 930.00 1002.00 616.00 706.00 796.00 976.00 1066.00 1156.00
204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M 15.00 to 17.50 M Eadhwork excavation in hard rock requiring blasting including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1 5 Mtr etc comptete Upto 1.50 m Add 90 for additional depths 1.50 to 3.00 M 3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 145 for additional Lift charges	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h 8.3.i 8.3.j 8.3.k 8.3.l 8.4.a 8.4.a 8.4.c 8.4.d 8.4.c 8.4.d 8.4.e 8.4.f 8.4.g 8.4.h	42 42 42 42 42 42 42 42 42 42	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00 930.00 1002.00 616.00 796.00 886.00 976.00 1066.00 1156.00
204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224	3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 72 for additional Lift charges 10.50 to 12.00 M 12.00 to 13.50 M 13.50 to 15.00 M Eadhwork excavation in hard rock requiring blasting including shoring, strutting, baricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 M and lift of 1 5 Mtr etc comptete Upto 1.50 m Add 90 for additional depths 1.50 to 3.00 M 3.00 to 4.50 M 4.50 to 6.00 M 6.00 to 7.50 M 7.50 to 9.00 M 9.00 to 10.50 M Add 145 for additional Lift charges 10.50 to 12.00 M	8.3.c 8.3.d 8.3.e 8.3.f 8.3.g 8.3.h 8.3.i 8.3.j 8.3.k 8.3.l 8.4.a 8.4.a 8.4.c 8.4.c 8.4.d 8.4.c 8.4.d 8.4.e 8.4.f 8.4.g 8.4.h	42 42 42 42 42 42 42 42 42 42	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	498.00 552.00 606.00 660.00 714.00 786.00 858.00 930.00 1002.00 616.00 796.00 976.00 1066.00 1156.00

SI No	Item of Work	Item No	Page No	Unit	Zone-1
227	Providing and laying Cement Concrete M-10(1:3:6) grade using hard granite or trap or basalt jelly 40mm and down size including machline mixing, laid in layers of 15cms thick and well compacted including lowering to any depth, dewatering and curing etc.,complete as per specifications with all lead and lifts for Foundation of staining	8,5	42-43	Cum	4285.00
228	Sand(Coarse)	73	ii	Cum	950.00
229	Sand(Fline)	74	ii	Cum	
				Cuiii	950.00
-	PWD		<u> </u>		
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary llines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5	2,3	5	Cum	189.00
2	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary llines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5	2.4	5	Cum	283.00
3	KSRB 2-23.1: Earthwork excavation for foundation of buildings, water supply, sanitary llines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary/hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5 Mechanical Means	2.23.1	7	Cum	53.00
3	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. No. KBS 2.9	2.10	6	Cum	127.00
4	KSRB 2.8: Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS	2.15	6	Cum	2114.00
5	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Page No.12 Item No.4.3)	4,3	12	Cum	4867.00
5	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fline aggregates @ 0.459cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machline mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machlinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6	4.11	13	Cum	6011.00
6	KSRB 4.2.3 : Providing and laying in position reinforced cement concrete of mix M15 with OPC cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fline aggregates @ 0.459cum, machline mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machlinery, curing, complete as per specifications.(Excluding cost of steel fabrication & plastering charges) Specification No. KBS 4.1, 4.6	4.12	14	Cum	6367.00
7	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fline aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103- 1999 Reaffirmed-2008, machline mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for R.C.C. beams, columns of all sizes in foundation plinth and superstructure ground floor level for roof slabs, staircase, lintles, columns, including cost of all materials, labour, HOM of machlinery, curing, complete as per specifications.(Excluding cost of steel, fabrication & plastering charges) Specification No. KBS 4.1, 4.6	4.16	15	Cum	6158.00
8	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fline aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103- 1999 Reaffirmed-2008, machline mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for R.C.C. beams, columns of all sizes in foundation plinth and superstructure ground floor level for roof slabs, staircase, lintels, columns, including cost of all materials, labour, HOM of machlinery, curing, complete as per specifications.(Excluding cost of steel, fabrication & plastering charges) Specification No. KBS 4.1, 4.6	4.11	13	Cum	6011.00

	Item of Work				· · · · · ·
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9	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fline aggregates @ 0.46cum, with superplastisiser @ 3lts conforming to IS9103-1999 Reaffirmed-2008, machline mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pilars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machlinery, curing, completebyt excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6	4.13	13	Cum	6158.00
10	KSRB 4.2.10: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.5175cum and fline aggregates @ 0.345cum, with superplastisiser @0.225lts, machline mixed, well compacted for plain chejja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machlinery, finishing, curing, complete as per specifications (Excluding cost of steel, fabrication and plastering charges). Specification No. KBS 4.1, 4.6	4.19	14	Sqm	456.00
11	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fline aggregates @ 0.465cum machline mixed, machline mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machlinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	4.2	12	Cum	5046.00
12	KSRB 4-4.2 : Extra for use of water proofing compound in Cement concrete of mix M20 at one kg of compound per bag of cement. Specification No. KBS	4.25	15	Cum	189.00
13	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	4 28	15	Sqm	231.00
14	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fline aggregates @ 0.57cum machline mixed, machline mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machlinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	4.3	12	Cum	4867.00
15	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machlinery complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500	4.46.2	19	Tonne	60607.00
16	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fline aggregates @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machline mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machlinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	4.5	12	Cum	5542.00
17	KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fline aggregates @ 0.459cum, machline mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machlinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	4.6	13	Cum	5441.00
18	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fline aggregates @ 0.56cum, machline mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machlinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	4.7	13	Cum	5282.00
19	KSRB 4-5: Providing lath plaster with cement mortar 1:3, 5cms thick with 6mm dia mild steel bars at 20 cms. c to c both horizontally and vertically fixing chicken mesh for drop chejja, facia, backing to cup boards including cost of all materials, labour, providing and removing form work HOM of machlineries, curing, complete as per specifications. Specification No. KBS	4.27	15	Sqm	967.00
20	KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Rates for centering height more than 3.5 mtrs.	4.29.2	15	Cum	550.00
21	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	4.31	16	Cum	293.00
22	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2	4.32	16	Sqm	366.00

	Item of Work		1		
SI No	ACTION WOLK	item No	Page No	Unit	Zone-1
23	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	4.34	16	Sqm	256.00
24	KSRB 4-6.9 :Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor, cills, plinth including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2	4,36	17	Cum	678.00
25	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc., for chejjas, corbels etc., including edges including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2	4.37	17	Sqm	270.00
26	KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2	4.38	17	Sqm	475.00
27	KSRB 5.1-3: Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6 (uncoursed), bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.12	5.3	25	Cum	3249.00
28	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	5,6	25	Cum	4187.00
29	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	5.9	25	Cum	5005.00
30	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5 cms thick	5.31.1	27	Each	628.00
31	KSRB 6-2.3: Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2	6.6	29	Cum	6685.00
32	KSRB 6-7.4 :Construction of partition wall 11.2 cms thick with non modular table moulded burnt bricks of class designation 50 with cement mortar 1:4 including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2	6.26	31	Sqm	891.00
33	KSRB 7.3 : Providing and fixing 1mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron, 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machlinery complete as per specifications. Double leaf door of size 2.4x2.4m Specification No. KBS 7.9 / 7.12	7.3	34	Sqm	2332.00
34	KSRB 7.5: Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machlinery complete as per specifications. Shutter size 3mx2.8 m Specification No. KBS 7.10 / 7.12	7.5	34	Sqm	2862.00
35	KSRB 7.6 : Providing and fixing top covers made out of 20 guage M.S. sheet over pull and push rolling shutters bent to shape including cost of red lead primer coat of painting , materials, labour, HOM of machlinery complete as per specifications. Specification No. KBS 7.10.6 / 7.12		35	Mtr	473.00
36	KSRB 7.7: Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm. weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to 1.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be thoroughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machlinery complete as per specifications. Specification No. KBS 7.12.1/7.12.2/7.12.3/7.12	7.7	35	Sqm	3530.00
37	KSRB 7.9: Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machlinery complete as per specifications. Specification No. KBS 7.12	7.9	35	Kg	78.00

	Item of Work				
SI No		Item No	Page No	Unit	Zone-1
38	Fabricating, providing and erecting in position of M S Omamental security Grill Gate without hot dip using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centre support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for square bars of full height and at 8cms C / C for bottom rods providing ornamental C I Designers at the botom and C I arrows inthe middle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necessary drillling holes, the work includes providing two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulley cranes with all lead and lift, loading, transporting and unloading using hoist pulley cranes, scaffolding charges and all other incidental charges required for successful completion fo the work as per specification and drawings	7.31	44	Kgs	126.00
39	Fabricating, providing and erecting in position of M S Omamental security Grill without hot dip using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centre support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for square bars of full height and at 8cms C / C for bottom rods providing ornamental C I Designers at thebotom and C I arrows inthe middle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necessary drillling holes, the work includes providing two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulley cranes etc as per specification and drawings.		44	Kgs	131.00
40	KSRB 8.6-3: Providing and fixing on wall surface asbestos cement rain down water pipes 75mm dia including filling the joints with spun yarn soaked in neat cement slurry 1:2 with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications. Specification No. KBS 8.27, 8.28	8.14	50	Mtr	409.00
41	KSRB 9.4-3: Providing Mathi / Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machlineries complete as per specifications. Specification No. KBS 9.33	9-12	54	Cum	80792.00
42	KSRB 9.5-3: Providing and fixing in position fully panelled Mathi/Nandi wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machlineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34	9.16	54	Sqm	3925.00
43	KSRB 10-3: Providing and laying integral cement based water proofing treatment including preparation of surfaces as required application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications.	10.2	67	Sqm	904.00
44	KSRB13-3.2: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 20mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6		92	Mtr	185.00
45	KSRB13-3.3 : Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 25mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6	13.12	92	Mtr	267.00
46	KSRB13-3.4: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 32mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6.	13.13	92	Mtr	301.00
47	KSRB13-3.5 : Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 40mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6		92	Mtr	377.00
48	KSRB13-3.6: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6		92	Mtr	432.00

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49	KSRB13-3.7: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 65mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6	13.16	92	Mtr	651.00
50	KSRB13-3.8: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 80mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6	13.17	92	Mtr	821.00
51	KSRB13-3.9: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 100mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6	13,18	92	Mtr	1082.00
52	KSRB13-3.10: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 150mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6		92	Mtr	1620.00
53	KSRB13-6.5-3: Providing and fixing in position 25mm nominal bore brass ferrule with C.I mouth cover including boring and tapping the main, cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.3 / 13.14		94	Each	270.00
54	KSRB13-8.2 : Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kg//sq.cm working pressure 25mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9		95	Mtr	117.00
55	KSRB13-8.3 : Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kg/sq.cm working pressure 32mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9		95	Cum	185.00
56	KSRB13-8.4: Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/sq.cm working pressure 40mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9		95	Cum	225.00
57	KSRB13-8.5 : Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/sq.cm working pressure 50mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9		95	Cum	263.00
58	KSRB 14.7-3: Providing and laying flooring 40 mm thick, with an under layer of 30mm thick M-15 cement concrete, using broken granite metal of 12.5mm nominal size and top layer of 10mm thick plaster with cement mortar 1:3, finished with floating coat of neat cement, including cost of materials, labour, curing, complete as per specifications. Specification No. KBS 14.3	,	104	Sqm	517.00
59	KSRB 14.9-2: Providing and laying M-15 cement concrete flooring 60 mm thick with metallic concrete hardner topping, under layer of 45mm thick M-15 cement concrete using broken granite metal of 20mm and down size and top layer of 15mm thick metallic cement hardner consisting of mix 1:2 (1 cement hardner mix: 2 granite metal 10mm nominal size) by volume, with metalic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement = 1 part of metallic floor hardening compound of approved quality by wt.), including finishing, cost of materials, labour, curing, complete as per specifications. Specification No. KBS 14.4) f f 14 14	104	Sqm	673.00
60	KSRB 14-17.2: Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour complete as per specifications. Specification No.KBS 14.16, 14.17 Colour glazed tiles 30x45 cms 6mm thick with border of size 30 x 10 cms.	14.41.3	108	Sqm	1119.0
61	KSRB 15.1.3 -do- Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.	f 15.3	115	Sqm	98.00
62	KSRB15-3.3: Providing 12mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.		115	Sqm	150.00
63	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off comers wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.		116	Sqm	198.00
64	KSRB15-3.10: Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry concrete surface including rounding off comers wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.		116	Sqm	259.00

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65	KSRB15-3-13: Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.		116	Sqm	193.00
66	KSRB15-4.5 Extra for providing and mixing water proofing compound in cement plaster for stone masonry work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:4, 20mm thick cost of materials complete as per specifications.		116	Sqm	9.00
67	KSRB15-5.2 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:6, to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.		117	Sqm	157.00
68	KSRB15-7: Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications.	15.33	124	Sqm	25.00
69	KSRB 15-14.1: Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.	15.49.1	119	Sqm	71.00
70	KSRB 15-16.1: Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.	ı	120	Sqm	69.00
71	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.	15.60.1	121	Sqm	84.00
72	KSRB 15-18.1: Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after thoroughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fline steel wool, sand papers including cost of materials, labour, complete as per specifications.		123	Sqm	29.00
73	KSRB 15-18.6: Providing and applying black japan paint one coat (excluding priming coat) on previously painted steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.	15.78	123	Sqm	26.5
74	KSRRB M300-11.Excavation of for road way in all types of soil by mechanical means including cutting and pushing the earth to site of embankment including trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, complete as per specifications. MORTH Specification No.301	19.11	143	Cum	68.00
75	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305		152	Cum	300.0
75	KSRRB M300-53. Construction of embankment with approved material deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Table 300-2 complete as per specifications.(which includes watering charges & compaction by vibratory roller) MORTH Specification No. 305.		148	Cum	66.0
76	Excavation in Soil using Hydraulic Excavator CK 90 and Tippers with Disposal KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of Ilines, grades and cross sections, and transporting to the embankment location and complete as per specifications. MORTH Specification No.301		146	Cum	46.0
77	Excavation in Ordinary Rock using Hydraulic Excavator CK-90 and Tippers with Disposal KSRRB M300-15. Excavation for roadway in ordinary rock with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, transporting to embankment site and trimming bottom and side slopes in accordance with requirements of llines, grades and cross sections complete as per specifications. MORTH Specification No. 301		146	Cum	62.0
78	Excavation in Hard Rock (blasting prohibited) KSRRB M300-16.1. Excavation for roadway in hard rock (blasting prohibited) with rock breakers including breaking rock, loading in tippers and disposal and trimming bottom and side slopes in accordance with requirements of Ilines, grades and cross sections complete as per specifications. A Mechanised MORTH Specification No. 301		146	Cum	365.0
79	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications. (which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305		152	Cum	302.0

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	KSRRB M2200- Providing Weep Holes KSRRB M2200-8. Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V:20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per specifications MORTH Specification No.2706 & 2200 (Page No.225 Item No.28.10)	28.10	225	Nos /mtr	168.00
	KSRRB M2500-4.1. Providing and laying Pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specifications A. Stone / Boulder MORTH Specification No. 2504	30.5	250	Cum	1375.00
81	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 (300mm. dia)	34.6.1	263	Mtr	1583.00
82	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 (450mm. dia)	34.6.2	263	Mtr	2767.00
83	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 (600mm. dia)	34.6.3	264	Mtr	3448.00
84	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No. 1000 / 2300 (750mm. dia)	34.6.4	264	Mtr	3762.00
85	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 (900mm. dia)	34.6.5	264	Mtr	6025.00
86	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 (1200mm. dia)	34.6.6	264	Mtr	9292.00
87	Providing and laying reinforced cement concrete pipe NP2 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 450mm dia	34.7.4	264	Mtr	1509.00
88	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Englineer - in- charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)	37.2	272	Mtr	819.00
89	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Englineer-in-charge of work including two coats of approved quality paint over one coat of shop paint		272	Sqm	659.00
90	Cutting of road surface for pipelline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the Cement concrete road.	37,40	274	Cum	562.00
91	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Englineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint.	37.4	272	Mtr	324.00
92	Diversion of water course by providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc., complete. 1.50 mtrs depth below LWL.		274	Cum	268.00
93	Diversion of water course by providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc., complete. beyond 1.50 mtrs depth upto & including 3m depth.	1	274	Cum	330.00
94	Diversion of water course by providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc., complete. beyond 3.00 mtrs depth upto & including 4.5m depth.		274	Cum	495.00
95	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500,1700, 2200. Wall & bottom thickness 15cm (Page No.265 Item No.37.59.2)	27.50.2	265	Cum	6938.00
95	Approved quality granite metal 40 mm Nominal Size	75	II	Cum	950.00
96	Approved quality granite metal 10 mm Nominal Size	0057	II	Cum	1025.00
97	Approved quality granite metal 12.5 mm Nominal Size	0058	II II	Cum	1025.00
98	Providing Locking arrangements.	0220	XIV	Each	650.00

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99	Approved quality granite metal 6 mm Nominal Size	0707	II	Cum	800.00
100	Approved Quality fline Sand	0731	II	Cum	950.00
101	Approved quality granite metal 20 mm Nominal Size	0749	II	Cum	1100.00
102	Approved Quality coarse Sand	18	l I	Cum	950.00
	Weld mesh 75mm x 25 mm of 6g x 10g	548	XXXI	Sqm	280.00
104	25 mm Nominal Size	800	11	Cum	975.00
105	Coarse aggregates 53 mm	734	I	Cum	750.00
106	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specificcation.	7.37	42	Sqm	2934.00
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	Earth work excavation for pipelline trenches (except building works) including depositing on bank with all lead including shoring, strutting, barricading, danger lighting and using sight rails and boning rods at every 100 metres wherever necessary as directed in the following strata. Earthwork Excavation by Manual Means		5		,
	0 - 2.00 Mtrs				<u> </u>
	i) -do- In all soils mixed with boulders upto 30 cms.size and exclusive of disintegrated rock.	II.1.1.i.a	5	Cum	293.44
	iii) -do- in disintegrated rock, soft rock, soft shale and medium hard rock comprising of Lime stone, sand stone, hard shale, schiest, fissured rock without resorting to blasting	II,1.1.ii.a	5	Cum	663.04
111	iii) -do- in hard laterite rock or hard laterite rock containing iron ore upto 20% by chistelling and trimming to proper slope.	II.1.1.iii.a	5	Cum	1011.36
112	Earth work in excavation for pipelline trenches upto 600 mm trench width as per drawing and technical specification, including setting out, construction of shoring, strutting, barricading, danger lighting, bracing, using sight rails & boning rods at every 100 mm whevere necessary as directed, removal of slumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required, utilising the available excavated earth locally for the work etc., complete in the following strata.	II.1.vii.2	9		
113	0 - 2.00 Mtrs		9		
114	do- In Ordinary / All soils / Hard soil (Depth upto 3m)	II.1.vii.2a	9	Cum	145.60
115	do- Ordinary Rock (not requiring blasting)	II.1.vii.2b	9	Cum	194.88
116	do- Hard Rock (requiring blasting)	II.1.vii.2c	9	Cum	1136.80
117	Refilling pipelline trenches and foundation with selected available earth from trench excavation and foundation including watering, consolidation in layers of 15 cms., thickness including disposing off the surplus earth with all lead and lift.	II.1.2	15	Cum	115.36
118	Supplying Ductile Iron pipes K-7 Class conforming to IS 8329:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to Iline, level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of DI pipes and specials, (excluding cost of specials) with rubber gaskets including cleaning the socket and spigot ends with soap solution and applying soft soap to the spigot and socket ends before insertion of rubber gaskets, jacking and fixing in perfect conditions including cost of soap solution, soft soap, waste etc. and giving necessary hydraulic test to the required pressure as per ISS with all lead and lift including cost of jointing materials. (contractor will make his own arrangements for procuring water for testing). DI Pipe rates are based on the Foundry Grade Pig Iron (Si:2%-2.5%) with WPI of 141.1 as on July-2013	II.2.5.1	14 		
119	100 mm dia	II.2.5.1.1	14	Cum	1018.08
120	150 mm dia	11.2.5.1.2	14	Cum	1478.40
121	200 mm dia	II.2.5.1.3	14	Cum	2060.80
122	250 mm dia 300 mm dia	II.2.5.1.4	14	Cum	2684.64
	a NULL DED COM	II.2.5.1.5	14	Cum	3399.20
123		11.00.0	1	Δ	4004.00
123 124	350 mm dia	II.2.5.1.6	14	Cum	4231.36
123 124 125	350 mm dia 400 mm dia	II.2.5.1.7	14	Cum	5101.60
123 124	350 mm dia	1111000			

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129	Supplying Ductile Iron pipes K-9 Class conforming to IS 8329:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to lline, level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of DI pipes and specials, (excluding cost of specials) with rubber gaskets including cleaning the socket and spigot ends with soap solution and applying soft soap to the spigot and socket ends before insertion of rubber gaskets, jacking and fixing in perfect conditions including cost of soap solution, soft soap, waste etc. and giving necessary hydraulic test to the required pressure as per ISS with all lead and lift including cost of jointing materials. (contractor will make his own arrangements for procuring water for testing). DI Pipe rates are based on the Foundry Grade Pig Iron (Si:2%-2.5%) with WPI of 141.1 as on July-2013	II.2.5.2	14		
130	100 mm dia	11.2.5.2.1	14	Cum	1163.68
131	150 mm dia	11.2.5.2.2	14	Cum	1686.72
132	200 mm dia	11.2.5.2.3	14	Cum	2410.2
133	250 mm dia	II 2.5.2.4	14	Cum	3200.9
134	300 mm dia	II.2.5.2.5	14	Cum	4075.6
135	350 mm dia	II.2.5.2.6	14	Cum	5087.0
136	400 mm dia	11.2.5.2.7	14	Cum	6135.3
137	450 mm dia	II.2.5.2.8 II.2.5.2.9	14	Cum Cum	7329.2 8491.8
138	500 mm dia 600 mm dia	II 2 5 2 10	14	Cum	11308.6
140	Supply and Delivery of resilient seated soft sealing Sluice Valves with body, bonnet of Ductile iron of grade GGG50, wedge fully rubber lined with EPDM and Seals of NBR and the valves should be of vaccum tight and 100% leak proof with face dimensions as per BS 5163-89/IS 14846-2000/ DIN 3202 F4/F5,. The steam Sealing Should be with toroidal sealing rings (minimum 2 "O" rings). All the valves Shall be supplied with suitable size galvanized bolts and nuts of required numbers as per relevant IS PN 10	11 2 10 1	18	Calli	11300.0
141	80 mm dia	II.2.10.1.1	18	Each	9578.2
142	100 mm dia	II.2.10.1.2	18	Each	12138.
143	150 mm dia	II,2,10,1,3	18	Each	21240.
144	200 mm dia	II.2.10.1.4	18	Each	33691.
145	250 mm dia	II.2.10.1.5	18	Each	50708.
146	300 mm dia	11.2.10.1.6	18	Each	71491.8
147	350 mm dia	II.2.10.1.7	18	Each	124186.
148	400 mm dia	II.2.10.1.8	18	Each	149931.
149	450 mm dia	II.2.10.1.9	18	Each	204627.
150	500 mm dia 600 mm dia	II.2.10.1.10	18	Each Each	258083 372930
151 152	700 mm dia	II.2.10.1.11		Each	372330.
153	750 mm dia	II.2.10.1.13		Each	
154	800 mm dia	II.2.10.1.14	+	Each	
155	900 mm dia	II.2.10.1.15	+	Each	
156	Supply and Delivery of resilient seated soft sealing Sluice Valves with body, bonnet of Ductile iron of grade GGG50, wedge fully rubber lined with EPDM and Seals of NBR and the valves should be of vaccum tight and 100% leak proof with face dimensions as per BS 5163-89/IS 14846-2000/ DIN 3202 F4/F5,. The steam Sealing Should be with toroidal sealing rings (minimum 2 "O" rings). All the valves Shall be supplied with suitable size galvanized bolts and nuts of required numbers as per relevant IS PN 16	II.2.10.2	18	Each	0570
157	80 mm dia	II.2.10.2.1	18	Each	9578.2
158	100 mm dia	11.2.10.2.2	18	Each	12138.
159	150 mm dia	II.2.10.2.3 II.2.10.2.4	18	Each Each	21240 33691
160 161	200 mm dia 250 mm dia	II.2.10.2.4 II.2.10.2.5	18	Each	50708
162	300 mm dia	II.2.10.2.5	18	Each	71491
163	350 mm dia	II.2.10.2.7	18	Each	124186
164	400 mm dia	II.2.10.2.8	18	Each	149931
165	450 mm dia	II.2.10.2.9	18	Each	204627
166	500 mm dia	II.2.10.2.10	18	Each	258083
167	600 mm dia	II.2.10.2.11	18	Each	372930
168	supply and fixing of single chamber triple function tamper proof (both the orifices to be housed in the single chamber Air valves with body and cover in ductile cast iron of grade GGG 50. all internal parts such as float, shell etc all cover bolts of austitic alloy/ SS 304 steel, DN 50 float of HOSTAFLON /SSRAL5005. The valves Should be designed for all the three functions i.e: 1. Large orifice for venting of large air volumes on start up. 2. Large orifice for Intake of large air Volumes 3. Small orifice for Discharge of pressurized air during operation PN10	rl	19		
	90 mm dia	1121071	10	Each	25755
	80 mm dia	II.2.10.7.1	19	Each	25755.
169	100 mm dia	II.2.10.7.2	19	Each	34352.

SI No	Item of Work	item No	Page No	Unit	Zone-1
472	200 mm dia	[1.2.10.7.4	19	Each	52118.08
173	200 mm dia Supply and fixing of single chamber triple function proof (both the orifices to be housed in the single chamber) Air valves with body and cover in ductile cast iron of grade GGG 50. all internal parts such as float, shell etc all cover bolts of austitic alloy/ SS 304 steel, DN 50 float of HOSTAFLON /SSRAL5005. The valves Should be designed for all the three functions i.e: 1.Large orifice for venting of large air volumes on start up. 2.Large orfice for Intake of large air Volumes 3.Small orifice for Discharge of pressurized air during operation PN16	II.2.10.8	19	Lagi	32110.00
174	80 mm dia	11.2.10.8.1	19	Each	28181.44
175	100 mm dia	II.2.10.8.2	19	Each	42553.28
176	150 mm dia	II.2.10.8.3	19	Each	51357.60
177	200 mm dia	[1.2.10.8.4	19	Each	59981.60
178	Supply and fixing of Cast Steel Double flanged Dual plate check valve Class 150 Conforming to API 594 with latest amendments as detailed below of following diameters and types and conveying to work site, loading, unloading, stacking etc.,complete with all lead and lift. The rates are inclusive of cost of Bolts and Nuts Class 150	II.2.10.9	17		
179	80 mm dia	11.2.10.9.1	17	Nos	4651.36
180	100 mm dia	II.2.10.9.2	17	Nos	5361.44
181	150 mm dia	II.2.10.9.3	17	Nos	9210.88
182	200 mm dia	II.2.10.9.4	17	Nos	17413.76
183	250 mm dia	II.2.10.9.5	17	Nos	25128.32
184	300 mm dia	11.2.10.9.6	17	Nos	32953.76
185	350 mm dia	II.2.10.9.7	17	Nos	44635.36
186	400 mm dia	II.2.10.9.8	17	Nos	63237.44
187	450 mm dia	II.2.10.9.9	17	Nos	75878.88 87438.40
188	500 mm dia	II.2.10.9.10	17	Nos	
189	600 mm dia	II.2.10.9.11	17	Nos	98657.44 139576.64
190	700 mm dia	II.2.10.9.12	17	Nos Nos	154515.20
191	750 mm dia	II.2.10.9.13 II.2.10.9.14	17	Nos	171407.04
192	800 mm dia	II.2.10.9.14	17	Nos	237611.36
193	900 mm dia 1000 mm dia	II.2.10.9.16	17	Nos	304709.44
194	1100 mm dia	II.2.10.9.17	17	Nos	907313.12
195 196	1200 mm dia	II.2.10.9.18	17	Nos	1171285.92
197	Supplying HDPE pipes conforming to IS 4984:1995 with latest amendments and conveying to work site including loading and unloading at both destination and rolling, lowering into trenches, laying true to lline and jointing of pipes and specials by electrofusion welding, including encasing the pipe around to a depth not less than 15cms with soft gravel or selected earth available from the excavation etc., complete giving hydraulic test as per relevant ISS with all lead and lift including testing and commissioning. The rate is exclusive of required specials and fittings etc., complete	11.2.50.2	34		
	(Contractor will make his own arrangement for procuring water for testing) Note: a) PE - 80 Rates are based on resin rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT.				
198	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT.	II.2.50.2.1	34		
198 199	rate of Rs.1,04,200.00 per MT.		34	Mtr	145.60
	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06	II.2,50,2.1	34	Mtr Mtr	145.60 181.44
199	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia	II.2,50,2.1 II.2,50,2.1.1	34 34	-	181.44 235.20
199 200	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.3 II.2.50.2.1.4	34 34 34 34	Mtr	181.44 235.20 322.56
199 200 201	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.3 II.2.50.2.1.4 II.2.50.2.1.4	34 34 34 34 34	Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96
199 200 201 202	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.3 II.2.50.2.1.4 II.2.50.2.1.5 II.2.50.2.1.6	34 34 34 34 34 34	Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12
199 200 201 202 203	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.2 II.2.50.2.1.4 II.2.50.2.1.5 II.2.50.2.1.6 II.2.50.2.1.7	34 34 34 34 34 34 34	Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72
199 200 201 202 203 204	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.2 II.2.50.2.1.4 II.2.50.2.1.5 II.2.50.2.1.6 II.2.50.2.1.7	34 34 34 34 34 34 34 34 34	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84
199 200 201 202 203 204 205	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia 200 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.2 II.2.50.2.1.3 II.2.50.2.1.5 II.2.50.2.1.6 II.2.50.2.1.6 II.2.50.2.1.8	34 34 34 34 34 34 34 34 34 34	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84 936.32
199 200 201 202 203 204 205 206	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia 200 mm dia 225 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.2 II.2.50.2.1.3 II.2.50.2.1.6 II.2.50.2.1.6 II.2.50.2.1.8 II.2.50.2.1.8 II.2.50.2.1.8	34 34 34 34 34 34 34 34 34 34 34	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84 936.32 1156.96
199 200 201 202 203 204 205 206 207 208 209	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia 200 mm dia 225 mm dia 225 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.2 II.2.50.2.1.3 II.2.50.2.1.6 II.2.50.2.1.6 II.2.50.2.1.8 II.2.50.2.1.8 II.2.50.2.1.9 II.2.50.0.1	34 34 34 34 34 34 34 34 34 34 34 34 34	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84 936.32 1156.96 1443.68
199 200 201 202 203 204 205 206 207 208 209	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia 200 mm dia 225 mm dia 225 mm dia 225 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.2 II.2.50.2.1.3 II.2.50.2.1.6 II.2.50.2.1.6 II.2.50.2.1.6 II.2.50.2.1.6 II.2.50.2.1.8 II.2.50.0.1 II.2.50.0.1 II.2.50.0.1	34 34 34 34 34 34 34 34 34 34 34 34 34	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84 936.32 1156.96 1443.68
199 200 201 202 203 204 205 206 207 208 209 210 211	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia 200 mm dia 225 mm dia 225 mm dia 225 mm dia 315 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.2 II.2.50.2.1.3 II.2.50.2.1.5 II.2.50.2.1.6 II.2.50.2.1.7 II.2.50.2.1.8 II.2.50.2.1.8 II.2.50.2.1.9 II.2.50.1 II.2.50.2.1	34 34 34 34 34 34 34 34 34 34 34 34 34	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84 936.32 1156.96 1443.68 1775.20 2173.92
199 200 201 202 203 204 205 206 207 208 209 210 211	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia 220 mm dia 225 mm dia 225 mm dia 225 mm dia 315 mm dia 315 mm dia 355 mm dia	II.2.50.2.1 II.2.50.2.1.3 II.2.50.2.1.3 II.2.50.2.1.4 II.2.50.2.1.5 II.2.50.2.1.6 II.2.50.2.1.7 II.2.50.2.1.8 II.2.50.2.1.8 II.2.50.2.1.9 II.2.50.2.1.9 II.2.50.3 II.2.50.4	34 34 34 34 34 34 34 34 34 34 34 34 34	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84 936.32 1156.96 1443.68 1775.20 2173.92 2785.44
199 200 201 202 203 204 205 206 207 208 209 210 211 212 213	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia 220 mm dia 225 mm dia 225 mm dia 225 mm dia 235 mm dia 315 mm dia 315 mm dia 355 mm dia 400 mm dia	II.2.50.2.1 II.2.50.2.1.3 II.2.50.2.1.3 II.2.50.2.1.4 II.2.50.2.1.5 II.2.50.2.1.6 II.2.50.2.1.7 II.2.50.2.1.8 II.2.50.2.1.8 II.2.50.2.1.9 II.2.50.0 II.2.50.0 II.2.50.0 II.2.50.0	34 34 34 34 34 34 34 34 34 34 34 34 34 3	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84 936.32 1156.96 1443.68 1775.20 2173.92 2785.44 3554.88
199 200 201 202 203 204 205 206 207 208 209 210 211 212 213	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia 225 mm dia 225 mm dia 225 mm dia 315 mm dia 315 mm dia 355 mm dia 400 mm dia 450 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.2 II.2.50.2.1.3 II.2.50.2.1.5 II.2.50.2.1.6 II.2.50.2.1.6 II.2.50.2.1.6 II.2.50.2.1.7 II.2.50.2.1 II.2.50.0 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1	34 34 34 34 34 34 34 34 34 34 34 34 34 3	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84 936.32 1156.96 1443.68 1775.20 2173.92 2785.44 3554.88 4421.76
199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia 220 mm dia 225 mm dia 225 mm dia 315 mm dia 315 mm dia 400 mm dia 400 mm dia 450 mm dia 450 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.2 II.2.50.2.1.4 II.2.50.2.1.5 II.2.50.2.1.6 II.2.50.2.1.6 II.2.50.2.1.8 II.2.50.2.1.8 II.2.50.2.1 II.2.50.0 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1	34 34 34 34 34 34 34 34 34 34 34 34 34 3	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84 936.32 1156.96 1443.68 1775.20 2173.92 2785.44 3554.88 4421.76 5420.80
199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia 225 mm dia 225 mm dia 235 mm dia 315 mm dia 315 mm dia 400 mm dia 450 mm dia 500 mm dia 500 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.4 II.2.50.2.1.5 II.2.50.2.1.5 II.2.50.2.1.6 II.2.50.2.1.6 II.2.50.2.1.8 II.2.50.0 II.2.50.1 II.2.50.0 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.3	34 34 34 34 34 34 34 34 34 34 34 34 34 3	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84 936.32 1156.96 1443.68 1775.20 2173.92 2785.44 3554.88 4421.76 5420.80 6907.04
199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia 200 mm dia 225 mm dia 225 mm dia 250 mm dia 250 mm dia 315 mm dia 315 mm dia 300 mm dia 300 mm dia 300 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.2 II.2.50.2.1.4 II.2.50.2.1.5 II.2.50.2.1.6 II.2.50.2.1.6 II.2.50.2.1.8 II.2.50.2.1.8 II.2.50.2.1 II.2.50.0 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1	34 34 34 34 34 34 34 34 34 34	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84 936.32 1156.96 1443.68 1775.20 2173.92 2785.44 3554.88 4421.76 5420.80 6907.04 8738.24
199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia 225 mm dia 225 mm dia 225 mm dia 315 mm dia 315 mm dia 355 mm dia 400 mm dia 450 mm dia 450 mm dia 560 mm dia 560 mm dia 560 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.2 II.2.50.2.1.5 II.2.50.2.1.5 II.2.50.2.1.6 II.2.50.2.1.6 II.2.50.2.1.8 II.2.50.0 II.2.50.1	34 34 34 34 34 34 34 34 34 34	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84 936.32 1156.96 1443.68 1775.20 2173.92 2785.44 3554.88 4421.76 5420.80 6907.04 8738.24
199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217	rate of Rs.1,04,200.00 per MT. b) PE-100 rates are based on resin rate of Rs.1,05,190.00 per MT. Providing & Laying HDPE Pipes PE100 PN06 63 mm dia 75 mm dia 90 mm dia 110 mm dia 125 mm dia 140 mm dia 160 mm dia 180 mm dia 200 mm dia 225 mm dia 225 mm dia 250 mm dia 250 mm dia 315 mm dia 315 mm dia 300 mm dia 300 mm dia 300 mm dia	II.2.50.2.1 II.2.50.2.1.1 II.2.50.2.1.2 II.2.50.2.1.4 II.2.50.2.1.5 II.2.50.2.1.6 II.2.50.2.1.6 II.2.50.2.1.8 II.2.50.2.1.8 II.2.50.2.1.9 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.1 II.2.50.3 II.2.50.4 II.2.50.5 II.2.50.6 II.2.50.7 II.2.50.8 II.2.50.9	34 34 34 34 34 34 34 34 34 34	Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr Mtr	181.44 235.20 322.56 400.96 505.12 622.72 763.84 936.32 1156.96 1443.68 1775.20 2173.92 2785.44 3554.88 4421.76 5420.80 6907.04

TOVV and 3	Item of Work	i I		·	·
SI No	item of work	Item No	Page No	Unit	Zone-1
222	90 mm dia	II.2.50.2.2.3	34	Mtr	278.88
223	110 mm dia	II.2.50.2.2.4	34	Mtr	388.64
224	125 mm dia	II.2.50.2.2.5	34	Mtr	484.96
225	140 mm dia	11.2.50.2.2.6	34	Mtr	609.28
226	160 mm dia	II.2.50.2.2.7	34	Mtr	758.24
227	180 mm dia	II.2.50.2.2.8	34	Mtr	935.20
228	200 mm dia	II.2.50.2.2.9	34	Mtr	1148.00
229	225 mm dia	11.2.30.2.2.1	34	Mtr	1422.40
230	250 mm dia	11.2.30.2.2.1	34	Mtr	1774.08
231	280 mm dia	11.2.30.2.2.1	34	Mtr	2189.60
	315 mm dia	11.2.50.2.2.1	34	Mtr	2695.84
	355 mm dia	11.2.30.2.2.1	34	Mtr	3441.76
	400 mm dia	11.2.30.2.2.1	34	Mtr	4412.80
	450 mm dia	11230221	34	Mtr	5512.64
	500 mm dia	11.2.50.2.2.1	34	Mtr	6755.84
237	560 mm dia	11.2.38.2.2.1	34	Mtr	8599.36
238	630 mm dia	11.2.38.2.2.2	34	Mtr	10874.08
239	710 mm dia		34	Mtr	18596.48
240	Providing & Laying HDPE Pipes PE100 PN10	II.2.50.2.3	34	\$ AL.	407.04
241	63 mm dia	II.2.50.2.3.1	34	Mtr	187.04
242	75 mm dia	II.2.50.2.3.2 II.2.50.2.3.3	34	Mtr Mtr	238.56 319.20
243	90 mm dia	, 		Mtr	448.00
244	110 mm dia	II.2.50.2.3.4 II.2.50.2.3.5	34	Mtr	561.12
245	125 mm dia	II.2.50.2.3.6	34	Mtr	704.48
246	140 mm dia 160 mm dia	II.2.50.2.3.7	34	Mtr	882.56
247	180 mm dia	11.2.50.2.3.7	34	Mtr	1097.60
248	200 mm dia	II.2.50.2.3.9	1	Mtr	1348.48
250	225 mm dia	11.2.30.2.3.1	34	Mtr	1671.04
251	250 mm dia	11.2.30.2.3.1	34	Mtr	2080.96
252	280 mm dia	11.2.30.2.3.1	34	Mtr	2571.52
253	315 mm dia	11.2.50.2.3.1	34	Mtr	3184.16
254	355 mm dia	11.2.50.2.3.1	34	Mtr	4076.80
255	400 mm dia	11:2.30.2.3.1	34	Mtr	5233.76
256	450 mm dia	11,2,30,2,3,1	34	Mtr	6528.48
257	500 mm dia	11.2.30.2.3.1		Mtr	8020.32
258	560 mm dia	11.2.30.2.3.1	34	Mtr	10167.36
259	630 mm dia	11.2.38.2.3.1		Mtr	12873.28
260	710 mm dia	11.2.30.2.3.2	34	Mtr	22839.04
261	Providing & Laying HDPE Pipes PE100 PN12.5	11.2.50.2.4	34		
262	63 mm dia	II.2.50.2.4.1	34	Mtr	208.32
263	75 mm dia	II.2.50.2.4.2	34	Mtr	268.80
264	90 mm dia	II.2.50.2.4.3	34	Mtr	366.24
265	110 mm dia	II.2.50.2.4.4	34	Mtr	518.56
266	125 mm dia	II.2.50.2.4.5		Mtr	651.84
267	140 mm dia	II.2.50.2.4.6	+	Mtr	818.72
268	160 mm dia	II.2.50.2.4.7		Mtr	1032.64
269	180 mm dia	II.2.50.2.4.8		Mtr	1283.52
270	200 mm dia	II.2.50.2.4.9		Mtr	1578.08
271	225 mm dia	11.2.30.2.4.1	34	Mtr	1966.72
272	250 mm dia	11.2.30.2.4.1	34	Mtr	2441.60
273	280 mm dia	n.2.50.2.4.	34	Mtr	3026.24
274	315 mm dia	11.2.50.2.4.1	34	Mtr	3757.60
275	355 mm dia	11.2.50.2.4.	34	Mtr	4799.20 6173.44
276	400 mm dia Providing & Laying HDPE Pipes PE100 PN16	II.2.50.2.5	34	Mtr	6173.44
277	63 mm dia	II.2.50.2.5		Mtr	237.44
278	75 mm dia	II.2.50.2.5.		Mtr	311.36
279	90 mm dia	II.2.50.2.5.	+	Mtr	425.60
280	110 mm dia	II.2.50.2.5.4		Mtr	605.92
281	125 mm dia	II.2.50.2.5.	-	Mtr	766.08
202	140 mm dia	II.2.50.2.5.		Mtr	960.96
282				Mtr	1221.92
283	160 mm dia	11.2.50.2.5	/ [34	I IVIII	
284	160 mm dia	II.2.50.2.5.		Mtr	
	160 mm dia 180 mm dia 200 mm dia	II.2.50.2.5. II.2.50.2.5.	34	+	1518.72 1870.40

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SI No	Item of Work	Item No	Page No	Unit	Zone-1
288	250 mm dia	11.2.30.2.3.1	34	Mtr	2901.92
289	280 mm dia	11.2.30.2.3.1	34	Mtr	3601.92
290	315 mm dia	11.2.50.2.5.1	34	Mtr	4480.00
291	355 mm dia	11.2.50.2.5.1	34	Mtr	5713.12
292	400 mm dia	11.2.30.2.3.1	34	Mtr	7355.04
293	450 mm dia	11.2.30.2.3.1	34	Mtr	9243.36
294	500 mm dia	11.2.36.2.3.1	34	Mtr	11354.56
295	Providing and laying C.C. 1:1.5:3 proportion for foundation (Screed layer) with 20 mm and down size of approved			1110	11004.50
293	gradation hard broken granite, trap basalt or with any other approved hard aggregate including cost and conveyance of all materials with an all lead & lifts including plywood / steel form work, machline mixing, laying, tamping, curing etc., complete.	III.1.2	38	Cum	6165.60
296	(a) Providing and laying vibrated M25 design mix for RCC works (excluding cost of reinforcement) with 20mm and down size of approved gradation hard broken granite, trap, basalt or with any other approved hard aggregate including weigh batch plant mixing and conveyance of all materials with all lead and lift laid in 15cms thick, layers well consolidated vibrating curing smooth finishing the exposed faces wherever necessary plywood / steel form work, centering etc., complete for independent/comblined footing, raft, beams below ground level (minimum Cement @ 360Kgs).	III.1.3.a	38	Cum	7464.80
297	Providing and laying vibrated M30 design mix for RCC work (Excluding cost of reinforcement) with 20 mm and down size of approved gradation hard, broken granite, trap, basalt or any other approved hard aggregate with plastering and smooth finishing the exposed faces in C.M. 1:3 12mm thick including cost and conveyance of all materials with all lead & lifts. including weigh batch plant mixing, plywood/steel form work, centering, scaffolding, curing, as per designs etc., complete for columns, braces and ring beam above ground level (minimum Cement @ 400 Kgs).	HL1.4	38	Cum	2
298	1) Upto G.L and 6 Mtr. Height	III,1.4,1	38	Cum	13451.20
299	2) Above 6 Mtr. upto 9 Mtr. Height	III.1.4.2	38	Cum	19174.40
300	3) Above 9 Mtr. upto 12 Mtr. Height	III.1.4.3	38	Cum	21342.72
301	4) Above 12 Mtr. upto 15 Mtr. Height	III.1.4.4	38	Cum	24554.88
302	Providing and laying vibrated M25 design mix for RCC work (Excluding cost of reinforcement) with 20 mm and down size of approved gradation hard broken granite, trap, basalt or any other approved hard aggregate including cost and conveyance of all materials with all lead & lift including weigh batch plant mixing plywood/steel form work, centering, scaffolding, curing, plastering and smooth finishing the exposed faces in C.M. 1:3 12 mm thick as per designs etc. complete for RCC Shaft (minimum Cement @ 360Kgs).	III.1.5	38		
303	1) Below G.L	III.1.5.1	38	Cum	14572.32
304	2) Above G.L upto 6 Mtr. Height	III.1.5.2	38	Cum	15598.24
305	3) Above 6 Mtr. upto 9 Mtr. Height	III.1.5.3	38	Cum	16111.20
306	4) Above 9 Mtr. upto 12 Mtr. Height	III.1.5.4	38	Cum	16624.1
307	5) Above 12 Mtr. upto 15 Mtr. Height	III.1.5.5	38	Cum	17137.1
	6) Above 15 Mtr. upto 18 Mtr. Height	III.1.5.6	38	Cum	17650.0
308	17, 44, 44, 44, 44, 44, 44, 44, 44, 44, 4	-	 		18163.0
309	7) Above 18 Mtr. upto 21 Mtr. Height a) Providing and laying vibrated M30 design mix for RCC work (excluding cost of reinforcement) with 20 mm and down size of approved gradation hard broken, granite, trap, basalt or any other approved hard aggregate including cost and conveyance of all materials with all lead & lift, plywood/steel form work, centering, scaffolding, plastering and smooth finishing the exposed faces in CM. 1:3 12 mm thick and CM plastering 1:3 proportion 20 mm thick for inside with an admixture of water proof compound of requisite proportion of approved quality including weigh batch plant mixing, curing etc., and reservoir given satisfactory water proof testing as per directions, etc., complete, for conical shell portion, bottom dome/slab,side wall and ribs over the staging. (Contractor will make his own arrangements for procuring water for testing) (Cement @ 400 Kgs).	III.1.6.a	39	Cum	10 103.04
311	1) Upto 6 Mtr. Staging	III.1.6.a.1	39	Cum	19610.08
312	2) Above 6 Mtr. upto 9 Mtr. Staging	III.1.6.a.2	39	Cum	21495.0
313	3) Above 9 Mtr. upto 12 Mtr. Staging	III.1.6.a.3	39	Cum	23854.8
314	4) Above 12 Mtr. upto 15 Mtr. Staging	III.1.6.a.4	39	Cum	27688.6
315	5) Above 15 Mtr. upto 18 Mtr. Height	III.1.6.a.5	39	Cum	31522.4
316	6) Above 18 Mtr. upto 21 Mtr. Height	III.1.6.a.6	39	Cum	35356.1
317	a) Providing and laying vibrated M30 design mix for RCC work (excluding cost of reinforcement) with 20 mm and down size of approved gradation hard broken, granite, trap, basalt or any other approved hard aggregate including cost and conveyance of all materials with all lead & lift, plywood/steel form work, centering, scaffolding, plastering and smooth finishing the exposed faces in CM. 1:3 12 mm thick and CM plastering 1:3 proportion 20 mm thick for inside with an admixture of water proof compound of requisite proportion of approved quality including weigh batch plant mixing, curing etc., and reservoir given satisfactory water proof testing as per directions, etc., complete, for conical shell portion, bottom dome/slab,side wall and ribs over the staging. (Contractor will make his own arrangements for procuring water for testing) (Cement @ 400 Kgs).	III.16b	39		

SI No	Item of Work	Item No	Page No	Unit	Zone-1
318	1) Upto 6 Mtr. Staging	III.1.6.b.1	39	Cum	22258.88
	2) Above 6 Mtr. upto 9 Mtr. Staging	III.1.6.b.2	39	Cum	24505.60
	3) Above 9 Mtr. upto 12 Mtr. Staging	III.1.6.b.3	39	Cum	27489.28
	4) Above 12 Mtr. upto 15 Mtr. Staging	III 1.6 b.4	39	Cum	32466.56
	5) Above 15 Mtr. upto 18 Mtr. Height	III.1.6.b.5	39	Cum	37443.84
	6) Above 18 Mtr. upto 21 Mtr. Height	III.1.6.b.6	39	Cum	42421.12
324	Providing and laying vibrated M30 design mix for RCC work (excluding cost of reinforcement) with 20 mm and down size of approved gradation hard broken granite, trap, basalt or any other approved hard aggregate including cost and conveyance of all materials with all lead and lifts above staging including weigh batch plant mixing, centering, plywood/steel form work, scaffolding, tamping, curing, cement mortar plastering 1:3 proportion 12 mm thick for both inside and outside surface etc., complete, for Top dome/ Slab. (Cement @ 400 Kgs).	III.1.7	39		
325	1) Upto 6 Mtr. Staging	III.1.7.1	39	Cum	22092.00
	2) Above 6 Mtr. upto 9 Mtr. Staging	III.1.7.2	39	Cum	24986.08
	3) Above 9 Mtr. upto 12 Mtr. Staging	III.1.7.3	39	Cum	27427.68
	4) Above 12 Mtr. upto 15 Mtr. Staging	III.1.7.4	39	Cum	30844.80
329	5) Above 15 Mtr. upto 18 Mtr. Height	III.1.7.5	39	Cum	34261.92
330	6) Above 18 Mtr. upto 21 Mtr. Height	III.1.7.6	39	Cum	37679.04
	Labour charges for fabricating mild steel or torsteel bars of all sizes for reinforcement for RCC works including conveying steel to work spot with all lead including cleaning, straightening, bending, fabricating, placing in position and tieing as per design including cost of binding wire hoisting etc., with all lifts etc., complete (Excluding cost of steel).	111.1.9	39	MT	
332	1) Upto 6 Mtr. Staging	III.1.9.1	39	MT	12306.56
333	2) Above 6 Mtr. upto 9 Mtr. Staging	III.1.9.2	39	MT	12995.36
334	3) Above 9 Mtr. upto 12 Mtr. Staging	III.1.9.3	39	MT	13340.32
335	4) Above 12 Mtr. upto 15 Mtr. Staging	III.1.9.4	39	MT	14029.12
336	5) Above 15 Mtr. upto 18 Mtr. Height	111.1.9.5	39	MT	14717.92
337	6) Above 18 Mtr. upto 21 Mtr. Height	III.1.9.6	39	MT	15406.72
338	Providing and fixing M.S. ladder between landing 45 cms.wide using angle iron of following size and 20 mm M.S. bars at 25cms, centre to centre with necessary supports of same angle iron as directed including hand railing on both sides with 25mm dia G.I. pipes with angle iron props at 2 mtrs, interval and 0.5 mtr, height including fixing in ground with C.C. 1:2:4 and two coats of nonpoisonous anticorrosive bituminous paint with all lead and lift etc., complete. Note: Only exposed ladder portion above G.L. to be paid for.	111.1.10	39		
339	a) 65 x 65 x 8 mm angle iron	III.1.10.a	39	Mtr	2039.52
340	b) 65 x 65 x 10 mm angle iron	III.1.10.b	39	Mtr	2270.24
341	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete.		40	Each	
342	1) For tanks upto 2.50 lakh liters capacity.	Ш.1.11.1	40	Each	6469.12
343	2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity	III.1.11.2	40	Each	7507.36
344	3) For tanks above 5 lakh liters and upto 10 lakh liters capacity	III.1.11.3	40	Each	8028.16
345	Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete.		40	Each	2036.16
346	(a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete.	III.1.13.2	40	Each	
	enamelled gauge plate.		1	<u> </u>	
347	enamelled gauge plate. 0 to 1.5 Mtr depth	III.1.13.2.1	_	Each	5181.12
347 348	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth	III.1.13.2.1 III.1.13.2.2	40	Each	6240.64
	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth	III.1.13.2.1	40		
348	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr.	III.1.13.2.1 III.1.13.2.2 III.1.13.2.3	40	Each	6240.64
348 349 350 351	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete.	III.1.13.2.1 III.1.13.2.2 III.1.13.2.3	40	Each Each	6240.64 7300.16
348 349 350 351 352	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete.	III.1.13.2.1 III.1.13.2.2 III.1.13.2.3 III.1.14	40 40 40 40	Each Each Each	6240.64 7300.16 2964.64
348 349 350 351 352 353	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia	III.1.13.2.1 III.1.13.2.2 III.1.13.2.3 III.1.14 III.1.14.1 III.1.14.2	40 40 40 40 40	Each Each Each Each	6240.64 7300.16 2964.64 3552.64
348 349 350 351	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia	III.1.13.2.1 III.1.13.2.2 III.1.13.2.3 III.1.14 III.1.14.1 III.1.14.2 III.1.14.3	40 40 40 40 40 40	Each Each Each Each Each	6240.64 7300.16 2964.64 3552.64 5484.64
348 349 350 351 352 353	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia 200 mm dia	III.1.13.2.1 III.1.13.2.2 III.1.13.2.3 III.1.14 III.1.14.1 III.1.14.2 III.1.14.3 III.1.14.4	40 40 40 40 40 40 40	Each Each Each Each Each Each	2964.6- 3552.6- 5484.6- 8264.4-
348 349 350 351 352 353 354	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia	III.1.13.2.1 III.1.13.2.2 III.1.13.2.3 III.1.14 III.1.14.1 III.1.14.2 III.1.14.3	40 40 40 40 40 40 40	Each Each Each Each Each Each Each Each	2964.64 3552.64 5484.64 8264.44
348 349 350 351 352 353 354 355	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia 200 mm dia	III.1.13.2.1 III.1.13.2.2 III.1.13.2.3 III.1.14 III.1.14.1 III.1.14.2 III.1.14.3 III.1.14.4	40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each Each	2964.6- 3552.6- 5484.6- 8264.4- 10721.7 13835.3
348 349 350 351 352 353 354 355 356	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia 200 mm dia 200 mm dia	III.1.13.2.1 III.1.13.2.2 III.1.13.2.3 III.1.14.1 III.1.14.1 III.1.14.2 III.1.14.3 III.1.14.4 III.1.14.5	40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each Each	2964.64 3552.66 5484.66 8264.44 10721.7 13835.3
348 349 350 351 352 353 354 355 356 357	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia 200 mm dia 200 mm dia 300 mm dia	III.1.13.2.1 III.1.13.2.2 III.1.13.2.3 III.1.14.1 III.1.14.1 III.1.14.2 III.1.14.3 III.1.14.4 III.1.14.5 III.1.14.6	40 40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each Each	2964.64 3552.66 5484.66 8264.44 10721.7 13835.3
348 349 350 351 352 353 354 355 356 357 358	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia 150 mm dia 250 mm dia 300 mm dia 300 mm dia	III.1.13.2.1 III.1.13.2.2 III.1.13.2.3 III.1.14.1 III.1.14.2 III.1.14.3 III.1.14.4 III.1.14.5 III.1.14.6	40 40 40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each Each	6240.64 7300.16 2964.64 3552.64
348 349 350 351 352 353 354 355 356 357 358 359	enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia 150 mm dia 250 mm dia 300 mm dia 300 mm dia 300 mm dia 400 mm dia	III.1.13.2.1 III.1.13.2.2 III.1.13.2.3 III.1.14.1 III.1.14.2 III.1.14.3 III.1.14.4 III.1.14.5 III.1.14.6 III.1.14.7 III.1.14.8	40 40 40 40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each Each	2964.64 3552.64 8264.44 10721.7 13835.3 18140.6 21852.3

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SI No	Item of Work	Item No	Page No	Unit	Zone-1
363	Supplying, laying of CI flanged pipe true to lline / hoisting of CI flanged pipe conforming to IS 7181-1986 with latest comendments in position and aligning to correct plumb including cost of jointing material, conveying to work spot with all lead and lifts etc., complete	III.1.15	40	Mtr	
364	80 mm dia	III.1.151	40	Mtr	2204.16
365	100 mm dia	III:1:15:2	40	Mtr	2686.88
366	150 mm dia	III.1.15.3	40	Mtr	4094.72
367	200 mm dia	III.1.15.4	40	Mtr	5776.96
368	250 mm dia	III.1.15.5	40	Mtr	7666.40
369	300 mm dia	III.1.15.6	40	Mtr	9750.72
	350 mm dia	III_1_15_7	40	Mtr	13005.44
370		III.1.15. 8	40	Mtr	15630.72
371	400 mm dia	24 00 140			
372	450 mm dia	III.1.15.9	40	Mtr	18989.60
373	500 mm dia	III.1.15.10	40	Mtr	22140.16
374	600 mm dia	III.1.15.11	40	Mtr	29384.32
375	Supplying and fixing lightening arrestor of aluminium strip 25mm x 3 mm size including finial and grounding, aluminium strip is to be embedded in one of the columns in an independent GI conduit of 40 mm dia pipe suitably jointed by collars with all specials with all lead and lifts etc., complete.	III.1.16	41	Each	
376	1) For tanks upto 6 Mtr. Staging	III.1.16.1	41	Each	12176.64
377	2) For tanks above 6 Mtr. upto 9 Mtr. Staging	III.1.16.2	41	Each	15233.12
378	3) For tanks above 9 Mtr. upto 12 Mtr. Staging	III.1.16.3	41	Each	18286.24
379	4) For tanks above 12 Mtr. upto 15 Mtr. Staging	III.1.16.4	41	Each	21341.60
380	5) For tanks above 15 Mtr. upto 18 Mtr. Staging	III.1.16.5	41	Each	24396.96
	6) For tanks above 18 Mtr. upto 21 Mtr. Staging	111.1.16.6	41	Each	27452.32
381	Providing two coats of water proof cement painting of approved colour and shade over one coat of primer including scraping the surface with wire brushes etc., before removal of scaffolding for new R.C.C. over head tanks and cleaning of paint stains wherever necessary with all lead & lift etc., complete.		41	Lagi	21402.02
383	1) For tanks upto 6 Mtr. Staging	III.1.17.a.1	41	Sqm	207.20
	2) For tanks above 6 Mtr. upto 9 Mtr. Staging	III.1.17.a.2	41	Sqm	228.48
384		III.1.17.a.2	41	Sqm	248.64
385	3) For tanks above 9 Mtr. upto 12 Mtr. Staging	10 01	 		269.92
386	4) For tanks above 12 Mtr. upto 15 Mtr. Staging	III.1.17.a.4	41	Sqm	
387	5) For tanks above 15 Mtr. upto 18 Mtr. Staging	III.1.17.a.5	41	Sqm	291.20
388 389	6) For tanks above 18 Mtr. upto 21 Mtr. Staging Supplying & fixing 40 mm dia G.I. medium duty pipes hand railing 3 rows fixed to 1:2:4 vibrated R.C.C. post of size 100 x 150 mm at top and 150 x 150 mm at bottom placed at 2 Mtr. intervals for a height of 750 mm including curing, painting G.I. pipes with two coats of anticorrosive steel paint over a primer coat with all lead and lift etc., complete. (Rate per Mtr. is for 3 rows of G.I. pipes.)		43	Sqm or Mtr of 3rov	1020.32
390	Providing and laying C.C. 1:1.5:3 proportion for foundation (Screed layer) with 20 mm and down size of approved gradation hard broken granite, trap basalt or with any other approved hard aggregate including cost and conveyance of all materials with an all lead & lifts including plywood / steel form work, machline mixing, laying, tamping, curing etc. complete.	f	43	Cum	6165.60
391	(a) Providing and laying vibrated M25 design mix for RCC works (excluding cost of reinforcement) with 20 mm and down sizeof approved gradation hard broken granite, trap, basalt or with any other approved hard broken granite including weigh batch plant mixing cost and conveyance of all materials with all lead and lift laid in 15 Cms, thick layers well consolidated, vibrating, curing, plastering and smooth finishing to the expose faces wherever necessaery plywood/steel form work, centering etc., complete for independent/comblined footing, raft, beams below ground level (Cement @ 360kgs).	,	43	Cum	7464.80
392	(b) Providing and laying vibrated M30 design mix for RCC work using 20 mm and down size metal of approved gradation hard broken granite, trap, basalt or with any other approved hard broken granite, including weigh batch plan mixing cost and conveyance of all materials with all lead and lift. for RCC Works in 15 Cms, thick layers well compacted curing, with necessary plywood/steel form work, centering etc., plastering and smooth finishing to the expose faces in CM 1:4 proportion. 12mm thick etc., complete for main and secondary beams below & above flool level (Cement @400kgs).	t I III,2,3.b	43	Cum	7990.08
393	(a) Providing and laying vibrated M30 design mix for R.C.C. Works with 20 mm and down size of approved gradation hard broken granite, trap, basalt or any other approved hard aggregate, including, cost and conveyance of all material with all lead & lift, including plywood/steel form work, centering, scaffolding, cement mortar, plastering in CM 1: proportion, 20mm. thick for inside with admixture of water proof compound of requisite proportion of approved qualit including weigh batch plant mixing, curing, making construction joints wherever necessary and giving satisfactor water proof testing etc., complete (excluding cost of reinforcement) for floor slab, resting on ground. (contractor wi make his own arrangements for procuring water for testing) (Cement @ 400 Kgs).	s 3 y y III.2.4.a	43	Cum	8184.96
		1			

	15				
SI No	Item of Work	Item No	Page No	Unit	Zone-1
318	1) Upto 6 Mtr. Staging	[II.1.6.b.1	39	Cum	22258.88
	2) Above 6 Mtr. upto 9 Mtr. Staging	III.1.6.b.2	39	Cum	24505.60
	3) Above 9 Mtr. upto 12 Mtr. Staging	III.1.6.b.3	39	Cum	27489.28
	4) Above 12 Mtr. upto 15 Mtr. Staging	III.1.6.b.4	39	Cum	32466.56
	5) Above 15 Mtr. upto 18 Mtr. Height	III.1.6.b.5	39	Cum	37443.84
	6) Above 18 Mtr. upto 21 Mtr. Height	III.1.6.b.6	39	Cum	42421.12
324	Providing and laying vibrated M30 design mix for RCC work (excluding cost of reinforcement) with 20 mm and down size of approved gradation hard broken granite, trap, basalt or any other approved hard aggregate including cost and conveyance of all materials with all lead and lifts above staging including weigh batch plant mixing, centering, plywood/steel form work, scaffolding, tamping, curing, cement mortar plastering 1:3 proportion 12 mm thick for both inside and outside surface etc., complete, for Top dome/ Slab. (Cement @ 400 Kgs).	III.1.7	39		
325	1) Upto 6 Mtr. Staging	III.1.7.1	39	Cum	22092.00
	2) Above 6 Mtr. upto 9 Mtr. Staging	III.1.7.2	39	Cum	24986.08
326	3) Above 9 Mtr. upto 12 Mtr. Staging	III.1.7.3	39	Cum	27427.68
327		III.1.7.4	39	Cum	30844.80
328	4) Above 12 Mtr. upto 15 Mtr. Staging	III.1.7.5	39	Cum	34261.92
329	5) Above 15 Mtr. upto 18 Mtr. Height	F17.002.00	39	Cum	37679.04
330	6) Above 18 Mtr. upto 21 Mtr. Height	111.1.7.6	39	Cuili	37075.04
331	Labour charges for fabricating mild steel or torsteel bars of all sizes for reinforcement for RCC works including conveying steel to work spot with all lead including cleaning, straightening, bending, fabricating, placing in position and tieing as per design including cost of binding wire hoisting etc., with all lifts etc., complete (Excluding cost of steel).	Ш.1.9	39	MT	
332	1) Upto 6 Mtr. Staging	111.1.9.1	39	MT	12306.56
333	2) Above 6 Mtr. upto 9 Mtr. Staging	III.1.9.2	39	MT	12995.36
334	3) Above 9 Mtr. upto 12 Mtr. Staging	III.1.9.3	39	MT	13340.32
	4) Above 12 Mtr. upto 15 Mtr. Staging	III.1.9.4	39	MT	14029.12
335		III.1.9.5	39	МТ	14717.92
336	5) Above 15 Mtr. upto 18 Mtr. Height	III.1.9.6	39	MT	15406.72
337	6) Above 18 Mtr. upto 21 Mtr. Height Providing and fixing M.S. ladder between landing 45 cms.wide using angle iron of following size and 20 mm M.S. bars	72.00	39	IVII	13400.72
338	at 25cms. centre to centre with necessary supports of same angle iron as directed including hand railing on both sides with 25mm dia G.I. pipes with angle iron props at 2 mtrs, interval and 0.5 mtr, height including fixing in ground with C.C. 1:2:4 and two coats of nonpoisonous anticorrosive bituminous paint with all lead and lift etc., complete. Note: Only exposed ladder portion above G.L. to be paid for.		39		
339	a) 65 x 65 x 8 mm angle iron	III.1,10.a	39	Mtr	2039.52
340					2000.02
-	1h) 65 x 65 x 10 mm angle iron	Ш.1.10.Ь	39	Mtr	2270.24
341	b) 65 x 65 x 10 mm angle iron Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete.		40	Mtr Each	
	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete.	Ш.1.11	40	Each	
342	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity.	Ш.1.11	40		2270.24
342 343	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity	III.1.11 III.1.11.1	40 40 40	Each Each	2270.24 6469.12 7507.36
342	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity	III.1.11 III.1.11.1 III.1.11.2 III.1.11.3	40	Each Each	2270.24
342 343	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete.	III.1.11 III.1.11.2 III.1.11.3	40 40 40	Each Each	2270.24 6469.12 7507.36
342 343 344	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and	III.1.11 III.1.11.2 III.1.11.3	40 40 40 40	Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16
342 343 344 345	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate.	III.1.11 III.1.11.2 III.1.11.3	40 40 40 40 40	Each Each Each Each	2270.24 6469.12 7507.36 8028.16
342 343 344 345 346	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth	III.1.11 III.1.11.2 III.1.11.3 III.1.12	40 40 40 40 40 40	Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16
342 343 344 345 346 347 348	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth	III.1.11 III.1.11.2 III.1.11.3 III.1.12	40 40 40 40 40 40 40 40	Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16
342 343 344 345 346 347 348 349	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth	III.1.11 III.1.11.2 III.1.11.3 III.1.12 III.1.13.2 III.1.13.2.1	40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16 5181.12 6240.64
342 343 344 345 346 347 348	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth	III.1.11.1 III.1.11.2 III.1.11.3 III.1.13.2 III.1.13.2.1 III.1.13.2.2 III.1.13.2.3	40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16 5181.12 6240.64 7300.16
342 343 344 345 346 347 348 349 350	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walls	III.1.11.1 III.1.11.2 III.1.11.3 III.1.12 III.1.13.2 III.1.13.2.1 III.1.13.2.2	40 40 40 40 40 40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16 5181.12 6240.64 7300.16
342 343 344 345 346 347 348 349 350 351	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. wall including hoisting and conveying them to work spot with all lead and lift etc., complete.	III.1.11.1 III.1.11.2 III.1.11.3 III.1.13.2 III.1.13.2.1 III.1.13.2.2 III.1.13.2.3	40 40 40 40 40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16 5181.12 6240.64 7300.16
342 343 344 345 346 347 348 349 350 351 352 353	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. wall including hoisting and conveying them to work spot with all lead and lift etc., complete.	III.1.11.1 III.1.11.2 III.1.11.3 III.1.12 III.1.13.2 III.1.13.2.1 III.1.13.2.2 III.1.13.2.3	40 40 40 40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16 5181.12 6240.64 7300.16
342 343 344 345 346 347 348 349 350 351 352 353 354	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 1 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. wall including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia 150 mm dia	III.1.11 III.1.11.2 III.1.11.3 III.1.12 III.1.13.2 III.1.13.2.2 III.1.13.2.3 III.1.14 III.1.14.1	40 40 40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16 5181.12 6240.64 7300.16
342 343 344 345 346 347 348 349 350 351 352 353 354 355	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 0 to 2.5 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. wall including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia 150 mm dia	III.1.11 III.1.11.2 III.1.11.3 III.1.12 III.1.13.2 III.1.13.2.3 III.1.14.1 III.1.14.1 III.1.14.2 III.1.14.3 III.1.14.3	40 40 40 40 40 40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16 5181.12 6240.64 7300.16 2964.64 3552.64 5484.64
342 343 344 345 346 347 348 349 350 351 352 353 354 355 356	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walt including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia 150 mm dia 200 mm dia	III.1.11.1 III.1.11.2 III.1.11.3 III.1.13.2 III.1.13.2.1 III.1.13.2.2 III.1.14.1 III.1.14.1 III.1.14.2 III.1.14.3 III.1.14.3 III.1.14.4 III.1.14.4	40 40 40 40 40 40 40 40 40 40 40 40 40 4	Each Each Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16 5181.12 6240.64 7300.16 2964.64 3552.64 5484.64 8264.48 10721.76
342 343 344 345 346 347 348 349 350 351 352 353 354 355	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. wall including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia 150 mm dia 200 mm dia 200 mm dia 200 mm dia	III.1.11 III.1.11.2 III.1.11.3 III.1.12 III.1.13.2 III.1.13.2.1 III.1.13.2.3 III.1.14.4 III.1.14.4 III.1.14.5 III.1.14.5 III.1.14.6	40 40 40 40 40 40 40 40 40 40 40 40 40 4	Each Each Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16 2036.16 5181.12 6240.64 7300.16 2964.64 3552.64 5484.64 8264.48 10721.76 13835.36
342 343 344 345 346 347 348 349 350 351 352 353 354 355 356	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. walt including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia 150 mm dia 200 mm dia	III.1.11 III.1.11.2 III.1.11.3 III.1.12 III.1.13.2 III.1.13.2.1 III.1.13.2.3 III.1.14.1 III.1.14.1 III.1.14.1 III.1.14.2 III.1.14.3 III.1.14.4 III.1.14.4 III.1.14.4 III.1.14.5 III.1.14.6	40 40 40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16 2036.16 5181.12 6240.64 7300.16 2964.64 3552.64 5484.64 8264.48 10721.76 13835.36 18140.64
342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. wall including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia 150 mm dia 200 mm dia 200 mm dia 200 mm dia	III.1.11 III.1.11.2 III.1.11.3 III.1.13.2 III.1.13.2.1 III.1.13.2.2 III.1.14.1 III.1.14.1 III.1.14.1 III.1.14.1 III.1.14.1 III.1.14.3 III.1.14.4 III.1.14.5 III.1.14.6	40 40 40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16 2036.16 5181.12 6240.64 7300.16 2964.64 3552.64 5484.64 8264.48 10721.76 13835.36 18140.64 21852.32
342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 5 lakh liters capacity 3) For tanks above 5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. wall including hoisting and conveying them to work spot with all lead and lift etc., complete. 80 mm dia 100 mm dia 150 mm dia 250 mm dia 350 mm dia	III.1.11 III.1.11.2 III.1.11.3 III.1.12 III.1.13.2 III.1.13.2.1 III.1.13.2.3 III.1.14.1 III.1.14.1 III.1.14.1 III.1.14.2 III.1.14.3 III.1.14.4 III.1.14.4 III.1.14.4 III.1.14.5 III.1.14.6	40 40 40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16 2036.16 5181.12 6240.64 7300.16 2964.64 3552.64 5484.64 8264.48 10721.76 13835.36 18140.64 21852.32 26746.72
342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359	Providing and fixing R.C.C. finial and ventialators as per approved design and specification with form work and protected with wire mesh. The plinth to be of R.C.C. circular pillars and canopy with an ornamental finish at top. The first 22.50 Cms. height to be covered with RCC panelling as per detailed drawing with all lead and lifts etc., complete. 1) For tanks upto 2.50 lakh liters capacity. 2) For tanks above 2.5 lakh liters and upto 10 lakh liters capacity Providing and fixing M.S. Inspection door of size 60 cms x 60 cms. including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete. (a) Providing and fixing guage with iron sheet of 3 mm to 4 mm thickness, 0.23 Mtr. width with copper floats indicators and flexible nylon wires, painting figures with approved enamelled paint with all lead and lifts etc., complete enamelled gauge plate. 0 to 1.5 Mtr depth 0 to 2 Mtr depth 10 to 2.5 Mtr depth 10 to 2.5 Mtr depth 10 to 2.5 Mtr depth 11 Note: Add Rs.584.00 for every 0.5 Mtr. or part there of, for depth beyond 2.5 Mtr. 12 Supplying & Fixing CI puddle flanges conforming to IS 7181-1986 with latest amendments, in position for R.C.C. wall including hoisting and conveying them to work spot with all lead and lift etc., complete. 12 mm dia 1300 mm dia 1400 mm dia 1400 mm dia 1400 mm dia	III.1.11 III.1.11.2 III.1.11.3 III.1.13.2 III.1.13.2.1 III.1.13.2.2 III.1.14.1 III.1.14.1 III.1.14.1 III.1.14.1 III.1.14.1 III.1.14.3 III.1.14.4 III.1.14.5 III.1.14.6	40 40 40 40 40 40 40 40 40 40	Each Each Each Each Each Each Each Each	2270.24 6469.12 7507.36 8028.16 2036.16 2036.16 5181.12 6240.64 7300.16 2964.64 3552.64 5484.64 8264.48 10721.76 13835.36 18140.64 21852.32

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SI No	Item of Work	Item No	Page No	Unit	Zone-1
363	Supplying, laying of CI flanged pipe true to lline / hoisting of CI flanged pipe conforming to IS 7181-1986 with latest comendments in position and aligning to correct plumb including cost of jointing material, conveying to work spot with all lead and lifts etc., complete	III.1.15	40	Mtr	
364	80 mm dia	III.1.15. 1	40	Mtr	2204.16
365	100 mm dia	III.1.15.2	40	Mtr	2686.88
366	150 mm dia	III.1.15.3	40	Mtr	4094.72
367	200 mm dia	III.1.15.4	40	Mtr	5776.96
368	250 mm dia	III.1.15.5	40	Mtr	7666.40
	300 mm dia	III.1.15.6	40	Mtr	9750.72
369		III 1 15 7	40	Mtr	13005.44
370	350 mm dia	III.1.15.8	40	Mtr	15630.72
371	400 mm dia	III.1.15.9	40	Mtr	18989.60
372	450 mm dia	0.000	40	Mtr	22140.16
373	500 mm dia	III.1.15. 10			29384.32
374 375	600 mm dia Supplying and fixing lightening arrestor of aluminium strip 25mm x 3 mm size including finial and grounding, aluminium strip is to be embeded in one of the columns in an independent GI conduit of 40 mm dia pipe suitably	III.1.15. 11	40	Mtr	23304.32
	jointed by collars with all specials with all lead and lifts etc., complete.		41	Each	40476 64
376	1) For tanks upto 6 Mtr. Staging	III.1.16.1	41	Each	12176.64
377	2) For tanks above 6 Mtr. upto 9 Mtr. Staging	III.1.16.2	41	Each	15233.12
378	3) For tanks above 9 Mtr. upto 12 Mtr. Staging	III.1.16.3	41	Each	18286.2
379	4) For tanks above 12 Mtr. upto 15 Mtr. Staging	III.1.16.4	41	Each	21341.6
380	5) For tanks above 15 Mtr. upto 18 Mtr. Staging	III.1.16.5	41	Each	24396.9
381	6) For tanks above 18 Mtr. upto 21 Mtr. Staging	111.1.16.6	41	Each	27452.3
382	Providing two coats of water proof cement painting of approved colour and shade over one coat of primer including scraping the surface with wire brushes etc., before removal of scaffolding for new R.C.C. over head tanks and cleaning of paint stains wherever necessary with all lead & lift etc., complete.	III.1.17.a	41		
383	1) For tanks upto 6 Mtr. Staging	III.1.17.a.1	41	Sqm	207.20
384	2) For tanks above 6 Mtr. upto 9 Mtr. Staging	III.1.17.a.2	41	Sqm	228.48
	3) For tanks above 9 Mtr. upto 12 Mtr. Staging	III.1.17.a.3	41	Sqm	248.64
385	4) For tanks above 12 Mtr. upto 15 Mtr. Staging	III.1.17.a.4	41	Sqm	269.92
386	5) For tanks above 12 Mit. upto 18 Mir. Staging	III.1.17.a.5	41	Sqm	291.20
387	6) For tanks above 18 Mtr. upto 10 Mtr. Staging	III.1.17.a.6	41	Sqm	312.48
388 389	Supplying & fixing 40 mm dia G.I. medium duty pipes hand railing 3 rows fixed to 1:2:4 vibrated R.C.C. post of size 100 x 150 mm at top and 150 x 150 mm at bottom placed at 2 Mtr. intervals for a height of 750 mm including curing painting G.I. pipes with two coats of anticorrosive steel paint over a primer coat with all lead and lift etc., complete (Rate per Mtr. is for 3 rows of G.I. pipes.)		43	er Mtr of 3rov	1020.32
390	Providing and laying C.C. 1:1.5:3 proportion for foundation (Screed layer) with 20 mm and down size of approved gradation hard broken granite, trap basalt or with any other approved hard aggregate including cost and conveyance of all materials with an all lead & lifts including plywood / steel form work, machline mixing, laying, tamping, curing etc. complete.	f	43	Cum	6165.60
391	(a) Providing and laying vibrated M25 design mix for RCC works (excluding cost of reinforcement) with 20 mm and down sizeof approved gradation hard broken granite, trap, basalt or with any other approved hard broken granite including weigh batch plant mixing cost and conveyance of all materials with all lead and lift laid in 15 Cms, thic layers well consolidated, vibrating, curing, plastering and smooth finishing to the expose faces wherever necessaery plywood/steel form work, centering etc., complete for independent/comblined footing, raft, beams below ground level (Cement @ 360kgs).	k	43	Cum	7464.80
392	(b) Providing and laying vibrated M30 design mix for RCC work using 20 mm and down size metal of approve gradation hard broken granite, trap, basalt or with any other approved hard broken granite, including weigh batch plar mixing cost and conveyance of all materials with all lead and lift. for RCC Works in 15 Cms, thick layers we compacted curing, with necessary plywood/steel form work, centering etc., plastering and smooth finishing to the expose faces in CM 1:4 proportion. 12mm thick etc., complete for main and secondary beams below & above floor level (Cement @400kgs).	e III.2.3.b	43	Cum	7990.0
393	(a) Providing and laying vibrated M30 design mix for R.C.C. Works with 20 mm and down size of approved gradatic hard broken granite, trap, basalt or any other approved hard aggregate, including, cost and conveyance of all materia with all lead & lift, including plywood/steel form work, centering, scaffolding, cement mortar, plastering in CM 1 proportion, 20mm. thick for inside with admixture of water proof compound of requisite proportion of approved quali including weigh batch plant mixing, curing, making construction joints wherever necessary and giving satisfacto water proof testing etc., complete (excluding cost of reinforcement) for floor slab, resting on ground. (contractor w make his own arrangements for procuring water for testing) (Cement @ 400 Kgs).	is 3 ty Ty III.2.4.a	43	Cum	8184.9

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Si No	Item of Work	item No	Page No	Unit	Zone-1
394	(b) Providing and laying vibrated M30 design mix for R.C.C. Works with 20 mm and down size of approved gradation hard broken granite, trap, basalt or any other approved hard aggregate, including, cost and conveyance of all materials with all lead & lift, including plywood/steel form work, centering, scaffolding, cement mortar, plastering in CM 1:3 proportion, 20mm. thick for inside with admixture of water proof compound of requisite proportion of approved quality including weigh batch plant mixing, curing, making construction joints wherever necessary and giving satisfactory water proof testing etc., complete (excluding cost of reinforcement) for for vertical side walls, alround effluent channel, baffels, etc. complete with outsideform finishing (Cement @ 400 Kgs).	III.2.4.b	43	Cum	14810.88
395	Providing and laying vibrated cement concrete 1:1½:3 proportion for RCC columns below and above G.L. with 20 mm and down size of approved gradation hard aggregate including cost and conveyance of all materials with all lead lift. with plywood or steel form work, centering including machline mixing laying, vibrating and smooth finishing the expoled faces in cm 1:3, 12 mm thick etc., complete (excluding cost of reinforcement).	III.2.5	. 43	Cum	14173.60
396	Providing and laying vibrated M30 design mix for RCC work with 20 mm and down size of approved gradation hard broken granite, basalt, trap or any other approved hard aggregate including cost and conveyance of all materials with all lead and lift including weigh batch plant mixing, centreing plywood / steel form work, scaffolding tamping, curing, cement mortar plastering in C.M. 1:3 proportion 12 mm. thick for inside surface etc., complete (excluding cost of reinforcement) for R.C.C. covering slab (Flat slab) (Cement @ 400 Kgs).	111.2.6.1	43	Cum	14194.88
397	Providing and laying vibrated M30 design mix for RCC work with 20 mm and down size of approved gradation hard broken granite, basalt, trap or any other approved hard aggregate including cost and conveyance of all materials with all lead and lift including weigh batch plant mixing, centreing plywood / steel form work, scaffolding tamping, curing, cement mortar plastering in C.M. 1:3 proportion 12 mm. thick for inside surface etc., complete (excluding cost of reinforcement) -do- For RCC Dome with plastering outside and inside with C.M. 1:3 proportion 12 mm thick (Cement @ 400 kgs).	III.2.6.2	43	Cum	18000.64
398	Diversion of water course by providing coffer dams or ring bunds or islands as may be necessary for intake well, connecting pipe lline, Jackwell etc. for foundation bailing out by pumping water during excavation and until completion of foundation and dismantling of coffer dam or ring bund or Island after completion of work etc., complete with all lead & lifts.	IV.1.1	45	Cum	
399	1) 0 to 2 Mtr. Height	IV.1.1.1	45	Cum	621.60
400	2)-do- 2 Mtr. to 4 Mtr. Height	IV.1.1.2	45	Cum	1233.12
401	3) Beyond 4 Mtr. Height	IV.1.1.3	45	Cum	1849.12
402	Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting, barricading, danger lighting. In all soil including soil mixed with boulders upto 30 Cms. size and exclusive of disintegrated rock.	IV,1,2,1	45	Cum	
403	1) 0 to 3 Mtr. Depth	IV.1.2.1.1	45	Cum	97.44
404	Extra 20% for dewatering				116.93
405	2) 3 to 6 Mtr. Depth	IV.1.2.1.2	45	Cum	110.88
406	Extra 20% for dewatering			ļ	133.06
407	12) C + 0 A 4 - D - 4		45		1 127 6
	3) 6 to 9 Mtr. Depth	IV.1.2.1.3	177	Cum	
408	Extra 20% for dewatering				153.2
409	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth	IV.1.2.1.4	45	Cum	153.2 146.7
409 410	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering	IV.1.2.1.4	45	Cum	153.2 146.7 176.0
409 410 411	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth				153.2: 146.7: 176.0: 480.4:
409 410 411 412	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering	IV.1.2.1.4	45	Cum	153.22 146.72 176.00 480.44
409 410 411	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth	IV.1.2.1.4 IV.1.2.1.5	45	Cum	127.68 153.22 146.72 176.06 480.44 576.58
409 410 411 412 413	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 45.00 per cum. for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr. Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting, barricading, danger lighting In disintegrated rock, soft rock,soft shale,medium hard rock comprising of lime stone, sand	IV.1.2.1.4 IV.1.2.1.5	45	Cum	153.2: 146.7: 176.00 480.4: 576.5:
409 410 411 412 413 414	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 45.00 per cum. for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr. Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting, barricading, danger lighting In disintegrated rock, soft rock,soft shale,medium hard rock comprising of lime stone, sand stone, hard shale, schist, fissured rock wihtout resorting to blasting. 1) 0 to 3 Mtr. Depth Extra 20% for dewatering	IV.1.2.1.4 IV.1.2.1.5 IV.1.2.2	45 45 45	Cum Cum Cum	153.2: 146.7: 176.00 480.4! 576.50 129.9 155.9
409 410 411 412 413 414 415 416 417	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 45.00 per cum. for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr. Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting, barricading, danger lighting In disintegrated rock, soft rock,soft shale,medium hard rock comprising of lime stone, sand stone, hard shale, schist, fissured rock wihtout resorting to blasting. 1) 0 to 3 Mtr. Depth Extra 20% for dewatering 2) 3 to 6 Mtr. Depth	IV.1.2.1.5 IV.1.2.2	45	Cum	153.2 146.7 176.0 480.4 576.5 129.9 155.9 148.9
409 410 411 412 413 414 415 416 417 418	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 45.00 per cum. for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr. Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting, barricading, danger lighting In disintegrated rock, soft rock,soft shale,medium hard rock comprising of lime stone, sand stone, hard shale, schist, fissured rock wihtout resorting to blasting. 1) 0 to 3 Mtr. Depth Extra 20% for dewatering 2) 3 to 6 Mtr. Depth Extra 20% for dewatering	IV.1.2.1.4 IV.1.2.1.5 IV.1.2.2 IV.1.2.2.1	45 45 45 45 45	Cum Cum Cum Cum	153.2: 146.7: 176.00 480.4: 576.5: 129.9 155.9 148.9 178.7
409 410 411 412 413 414 415 416 417 418 419	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 45.00 per cum. for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr. Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting, barricading, danger lighting In disintegrated rock, soft rock,soft shale,medium hard rock comprising of lime stone, sand stone, hard shale, schist, fissured rock without resorting to blasting. 1) 0 to 3 Mtr. Depth Extra 20% for dewatering 2) 3 to 6 Mtr. Depth Extra 20% for dewatering 3) 6 to 9 Mtr. Depth	IV.1.2.1.4 IV.1.2.1.5 IV.1.2.2	45 45 45	Cum Cum Cum	153.2: 146.7: 176.0: 480.4: 576.5: 129.9: 155.9: 148.9: 178.7: 171.3:
410 411 412 413 414 415 416 417 418 419 420	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 45.00 per cum. for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr. Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting, barricading, danger lighting In disintegrated rock, soft rock,soft shale,medium hard rock comprising of lime stone, sand stone, hard shale, schist, fissured rock wintout resorting to blasting. 1) 0 to 3 Mtr. Depth Extra 20% for dewatering 2) 3 to 6 Mtr. Depth Extra 20% for dewatering 3) 6 to 9 Mtr. Depth Extra 20% for dewatering	IV.1.2.1.4 IV.1.2.1.5 IV.1.2.2 IV.1.2.2.1 IV.1.2.2.2	45 45 45 45 45	Cum Cum Cum Cum Cum Cum	153.2: 146.7: 176.0: 480.4: 576.5: 129.9: 155.9: 148.9: 178.7: 171.3: 205.6:
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410 411 412 413 414 415 416 417 418 419 420 421	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 45.00 per cum. for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr. Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting, barricading, danger lighting In disintegrated rock, soft rock, soft shale, medium hard rock comprising of lime stone, sand stone, hard shale, schist, fissured rock without resorting to blasting. 1) 0 to 3 Mtr. Depth Extra 20% for dewatering 2) 3 to 6 Mtr. Depth Extra 20% for dewatering 3) 6 to 9 Mtr. Depth Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering	IV.1.2.1.4 IV.1.2.1.5 IV.1.2.2 IV.1.2.2.1 IV.1.2.2.2	45 45 45 45 45	Cum Cum Cum Cum Cum Cum	153.2: 146.7: 176.0: 480.4: 576.5: 129.9: 155.9: 148.9: 178.7: 171.3: 205.6: 196.0: 235.2:
410 411 412 413 414 415 416 417 418 419 420 421 422 423	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 45.00 per cum. for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr. Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting, barricading, danger lighting In disintegrated rock, soft rock, soft shale, medium hard rock comprising of lime stone, sand stone, hard shale, schist, fissured rock without resorting to blasting. 1) 0 to 3 Mtr. Depth Extra 20% for dewatering 2) 3 to 6 Mtr. Depth Extra 20% for dewatering 3) 6 to 9 Mtr. Depth Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth	IV.1.2.1.4 IV.1.2.1.5 IV.1.2.2 IV.1.2.2.1 IV.1.2.2.2 IV.1.2.2.3	45 45 45 45 45 45	Cum Cum Cum Cum Cum Cum Cum	153.2: 146.7: 176.0: 480.4: 576.5: 129.9: 155.9: 148.9: 178.7: 171.3: 205.6: 196.0: 235.2: 630.5:
410 411 412 413 414 415 416 417 418 419 420 421	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 45.00 per cum. for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr. Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting, barricading, danger lighting In disintegrated rock, soft rock, soft shale, medium hard rock comprising of lime stone, sand stone, hard shale, schist, fissured rock wintout resorting to blasting. 1) 0 to 3 Mtr. Depth Extra 20% for dewatering 2) 3 to 6 Mtr. Depth Extra 20% for dewatering 3) 6 to 9 Mtr. Depth Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 50.00 per cum for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr.	IV.1.2.1.4 IV.1.2.1.5 IV.1.2.2 IV.1.2.2.1 IV.1.2.2.2 IV.1.2.2.3 IV.1.2.2.4	45 45 45 45 45 45	Cum Cum Cum Cum Cum Cum Cum	153.2: 146.7: 176.0: 480.4: 576.5: 129.9: 155.9: 148.9: 178.7: 171.3: 205.6: 196.0: 235.2: 630.5:
410 411 412 413 414 415 416 417 418 419 420 421 422 423 424	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 45.00 per cum. for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr. Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting, barricading, danger lighting In disintegrated rock, soft rock, soft shale, medium hard rock comprising of lime stone, sand stone, hard shale, schist, fissured rock without resorting to blasting. 1) 0 to 3 Mtr. Depth Extra 20% for dewatering 2) 3 to 6 Mtr. Depth Extra 20% for dewatering 3) 6 to 9 Mtr. Depth Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 50.00 per cum for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr. Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting, barricading, danger lighting. In hard laterite	IV.1.2.1.4 IV.1.2.1.5 IV.1.2.2 IV.1.2.2.1 IV.1.2.2.2 IV.1.2.2.3 IV.1.2.2.4	45 45 45 45 45 45 45	Cum Cum Cum Cum Cum Cum Cum Cum Cum	153.2: 146.7: 176.00 480.44 576.5i 129.9 155.9 148.9 178.7 171.3 205.6 196.0 235.2 630.5 756.6
410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425	Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 45.00 per cum. for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr. Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting, barricading, danger lighting In disintegrated rock, soft rock, soft shale, medium hard rock comprising of lime stone, sand stone, hard shale, schist, fissured rock without resorting to blasting. 1) 0 to 3 Mtr. Depth Extra 20% for dewatering 2) 3 to 6 Mtr. Depth Extra 20% for dewatering 3) 6 to 9 Mtr. Depth Extra 20% for dewatering 4) 9 to 12 Mtr. Depth Extra 20% for dewatering 5) 12 to 15 Mtr. Depth Extra 20% for dewatering Note: Add Rs 50.00 per cum for every additional 2 Mtr. depth or part there off, for depth beyond 10 Mtr. Earth work excavation for foundation including depositing on bank with all lead & lifts including shoring, strutting,	IV.1.2.1.4 IV.1.2.1.5 IV.1.2.2 IV.1.2.2.1 IV.1.2.2.2 IV.1.2.2.3 IV.1.2.2.4	45 45 45 45 45 45	Cum Cum Cum Cum Cum Cum Cum	153.22 146.72 176.00 480.40

RDW and S	Division				
SI No	Item of Work	Item No	Page No	Unit	Zone-1
430	Extra 20% for dewatering				649.15
	3) 4 to 6 Mtr. Depth	IV.1.2.3.3	151	Cum	642.88
432	Extra 20% for dewatering				771.46
433	4) 6 to 8 Mtr. Depth	IV.1.2.3.4	151	Cum	717.92
434	Extra 20% for dewatering				861.50
435	5) 8 to 10 Mtr. Depth	IV.1.2.3.5	151	Cum	806.40
436	Extra 20% for dewatering				967.68
437	Note: Add Rs 75.00 per cum for every additional 2 Mtr. depth or part there off, For depth beyond 10 Mtr.				
438	Labour charges for laying following filter media in all depth as per specifications in infiltration gallery works including cleaning, screening and placing it under water with all lead & lift to the point of laying etc., complete.	IV.2.7	47		
439	1) Graded Granite/Trap/Basalt/Metal from 6mm to 40mm size	IV.2.7.1	47	Cum	638.40
440	2) -do- coursed sand passing through a sieve of 4 meshes 2.5 cms. and retalined on a sieve of 10 meshes to 2.5 cms. and filling it under water and coursed sand passing through a sieve of 10 meshes to 2.5 cms. and retalined on 20 meshes to 2.5 cms. and filling it under water.		47	Cum	696.64
441	Collecting and stacking the following filter media at the site of work with all lead and lift 6mm,10mm,12mm,20mm & 40mm		47	Cum	1271.20
442	Providing and laying Vibrated M30 design mix using 20mm and down size of approved gradation hard granite, trap or basalt broken metal including weigh batch plant mixing, shoring, strutting, plywood/steel form work, curing etc., complete with all lead for all materials, for well curb or RCC cutting edge (Cement @ 400 Kgs).	IV.3-12-a	48	Cum	
443	(2) -do- for RCC steining below ground level.	IV.3.12.a.2	48	Cum	11032.00
444	(3) -do- for R.C.C steining above ground level upto 3.50M height	IV.3.12.a.3	48	Cum	11135.04
445	Note: For additional lift charges beyond 3.50 Mtr height, see additional lift charges page. Rs. 61/-				
446	3.50m to 7.00 m Height	IV.3.12.a.4	48	Cum	11238.08
447	7.00m to 10.00 m Height	IV.3.12.a.5	48	Cum	11341.12
448	10.00m to 13.00 m Height	IV.3.12.a.6	48	Cum	11444.16

and S	S Division Manadevpura	I,CHIKKAHKAH	anaiii,N.Sneti	yriaili ariu i	Other to villa
No	Item of Work	Item No	Page No	Unit	Zone-1
	PRE Circle SR Mysuru(2018-2019)				
	Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be			Cum	
455	followed by seal coat .By Mechanical Means (Bitumen (S-65)	5.11 -Case-2	32		10
	Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause			Cum	
456	401. For Grading III Material	4.1-A(iii)	21		103
	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, crushable screening to fill-up the			Cum	
	interstices of coarse aggregate, watering and compacting to the required density Grading II as per Technical			00	
456	Specification Clause 405. By Manual Means (Water Bound Macadam with Crushable Screenings)	4.8 - 2 - A	24		187
730	Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base				
	including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical	5.1-i	29	Sqm	5
457	means as per Technical Specification Clause 502. (Low Porocity) Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of	3.14	23		,
	0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic			Sqm	
458	B broom as per Technical Specification Clause 503.	5.2 - ii	29		1
	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam				
	specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100kN static roller in stages to proper grade and camber, applying and brooming, stone screening/binding			Cum	
	materials to fillup the interstices of coarse aggregate, watering and compacting to the required density				
459	Grading III as per Technical Specification Clause 405. By Manual Means	4.7 - 3 - A	25		214
		1			
	Market Rate & Data Rates	-	1		1
	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation			Cum	
	including construction joints, , primer, sealant , curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.		:		
]M30			677