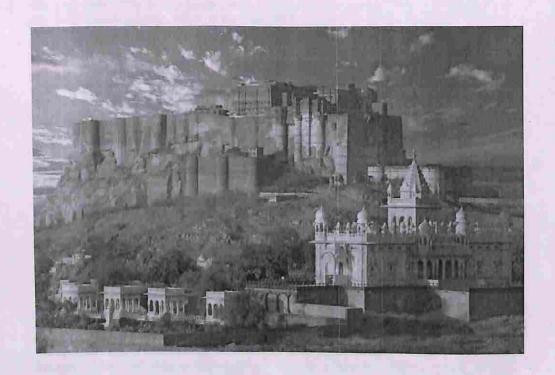
CONSTRUCTION OF NEW ROAD PROPOSEDRAOD FROM GHODA GATI TO MEHARANGARH FORT, JODHPUR





A Detail Project Report By

Jodhpur Development Authority



Jodhpur is the second-largest city in the Indian state of Rajasthan and officially the second metropolitan city of the state. It was formerly the seat of a princely state of the same name. Jodhpur was historically the capital of the Kingdom of Marwar, which is now part of Rajasthan. Jodhpur is a popular tourist destination, featuring many palaces, forts and temples, set in the stark landscape of the Thar Desert. It is popularly known as Blue city and Sun city among people of Rajasthan and all over India. The city is also said to be the cultural capital of Rajasthan state.

The old city circles the fort and is bounded by a wall with several gates. However, the city has expanded greatly outside the wall over the past several decades. Jodhpur lies near the geographic center of the Rajasthan state, which makes it a convenient base for travel in a region much frequented by tourists.

The city is also home to several educational institutions, the most prominent being AIIMS Jodhpur, IIT Jodhpur, SNMC Jodhpur, DSRRAU Jodhpur, NLU Jodhpur, NIFT Jodhpur. Many research institutes like Indian Space Research Organisation (ISRO), Defence Research and Development Organisation (DRDO), Central Arid Zone Research Institute (CAZRI), Arid Forest Research Institute (AAFRI), Desert Medicine Research Centre (DMRC) are also located in the city.

Demographics

As per provisional reports of Census India, the population of Jodhpur is 1,033,918 in 2011, where males constitute approximately 52.62 percent of the population and females constitute approximately 47.38 percent. The average literacy rate of Jodhpur is 80.56 percent, with a male literacy rate of approximately 88.42 percent and a female literacy rate of approximately 73.93 percent. Approximately 12.24 percent of the population is under six years of age. Jodhpur city is governed by Municipal Corporation which comes under Jodhpur Urban Agglomeration. The Jodhpur Urban/Metropolitan area include Jodhpur, Kuri Bhagtasani, Mandore Industrial Area, Nandri, Pal Village and Sangariya. Its Urban/Metropolitan population is 1,137,815 of which 599,332 are males and 538,483 are females. According to www.citypopulation.de population of Jodhpur city on 01/01/2019 is 1,440,000.

Climate

The climate of Jodhpur is hot and semi-arid during its nearly yearlong dry season, but contains a brief rainy season from late June to September . Although the average rainfall is around 362 millimetres (14.3 in), it fluctuates greatly. In the famine year of 1899, Jodhpur received only 24 millimetres (0.94 in), but in the flood year of 1917 it received as much as 1,178 millimetres (46.4 in).

Temperatures are extreme from March to October, except when the monsoonal rain produces thick clouds to lower it slightly. In the months of April, May and June, high temperatures routinely exceed 40 degrees Celsius. During the monsoon season. average temperatures decrease slightly. However, the city's generally low humidity



rises, which adds to the perception of the heat. The highest temperature recorded in Jodhpur was on 25 May 1932 when it rose up to 48.9 degrees Celsius.

The city is famous for its food and its popularity can be judged by the fact that one can find sweet shops named 'Jodhpur Sweets' in many cities throughout India. Being at the onshore of Thar desert, life has been influenced by ways of select nomadic tribes (So-called "Gypsy" groups - Banjare in Hindi - have settled in some parts of the city). Jodhpur has distinct cultural identity through its food Mirchi Bada and Mawa Kachori are famous], clothes especially female clothes, Marwari language, hospitality here every one is greeted with 'sa' postfix to their name 'sa' is used to give respect and also implies the happiness of seeing that person. Like most other non capital towns of an Indian state jodhpur also successfully managed to keep alive its culture and its clearly visible in day today life. To get a glimpse of culture a tourist can visit Sadar Bazar known as Ghanta-Ghar, Tripoliya Market, Nai-Sarak Market, all these three lies within 2 kilometers and are connected.

Jodhpur's most notable attractions are Mehrangarh Fort, Umaid Bhawan Palace, Jaswant Thada, and the Ghanta Ghar, or Clock Tower. Tourists are also within proximity to Fort Auwa, Mandore, Kaylana Lake and Garden, Balsamand Lake, Mandaleshwar Mahadev Temple (Mandalnath), Ratanada Ganesh Temple, ISKCON Temple, Sardar Samand Lake and Palace, Masooria Hills, Veer Durgadas Smarak (monument, park, and museum) and Bhim Bhadak Cave. Other attractions of people are at markets of food, antique items, traditional clothes and traditional shoes (also called Jodhpuri Mojari) held in Jodhpur.

Places of recreation

Some of the recreation places worth mentioning are:

- Mandore Gardens
- Kaylana Lake
- Shastri Circle
- Masuria Hill Garden
- Rao Jodha Desert Rock Park
- Science Park
- Ummed Garden
- Chokelav Baag
- Machiya Safari Park



Meharangarh Fort

Mehrangarh, located in Jodhpur, Rajasthan, is one of the largest forts in India. Built in around 1459 by Rao Jodha, the fort is situated 410 feet (125 m) above the city and is enclosed by imposing thick walls. Inside its boundaries there are several palaces known for their intricate carvings and expansive courtyards. A winding road leads to and from the city below. The imprints of the impact of cannonballs fired by attacking armies of Jaipur can still be seen on the second gate. To the left of the fort is the *chhatri* of Kirat Singh Soda, a soldier who fell on the spot defending Mehrangarh.

There are seven gates, which include Jayapol (meaning 'victory gate'), built by Maharaja Man Singh to commemorate his victories over Jaipur and Bikaner armies. There is also a Fattehpol (also meaning 'victory gate'), which commemorates Maharaja Ajit Singhji victory over Mughals.

The museum in the Mehrangarh fort is one of the most well-stocked museums in Rajasthan. In one section of the fort museum.

History

Rao Jodha, the chief of the Rathore clan, is credited with the origin of Jodhpur in India. He founded Jodhpur in 1459 as the capital of Marwar (Mandore was the previous capital). He was one of Ranmal's 24 sons and became the fifteenth Rathore ruler. One year after his accession to the throne, Jodha decided to move his capital to the safer location of Jodhpur, as the one thousand years old Mandore fort was no longer considered to provide sufficient security.

With the trusted aid of Rao Nara (son of Rao Samra), the Mewar forces were subdued at Mandore. With that, Rao Jodha gave Rao Nara the title of Diwan. With the help of Rao Nara, the foundation of the fort was decided on 12 May 1459[2] by Jodha on a rocky hill 9 kilometres (5.6 mi) to the south of Mandore. This hill was known as Bhakurcheeria, the mountain of birds. According to legend to build the fort he had to displace the hill's sole human occupant, a hermit called Cheeria Nathii, the lord of birds. Cheeria Nathji was a man with the local population as his followers and hence influential in the region. When requested to move he refused categorically. This happened many times. Rao Jodha then took extreme measures and sought help from another more powerful saint, the female warrior sage of Charan caste Shri Karni Mata of Deshnok. On request of the king she came and asked Cheeria Nathii to quit immediately. Seeing a superior power he left at once but cursed Rao Jodha with words "Jodha! May your citadel ever suffer a scarcity of water!". Rao Jodha managed to appease the hermit by building a house and a temple in the fort. Seeing the influence of Karni Mata Rao Jodha then invited her to lay down the foundation stone of the Mehrangarh Fort and the same was carried out by her. Today only the forts of Bikaner and Jodhpur remain in the hands of Rathors, both had their foundation stone laid by Shri Karni Mata. All other Rajput forts of Rajasthan were abandoned for some or the other reasons by the respective clans. Only the Rathors of Jodhpur and Bikaner have their forts with them till date. This fact is considered a miracle by the local population and is attributed to Shri Karni Mata. Rao



Jodha also granted villages of Mathania and Chopasni to the two Charan warlords who were sent by him to request Shri Karni Mata to come to Jodhpur.

To ensure that the new site proved propitious; he buried a man of the Meghwal caste called "Raja Ram Meghwal", who offered his services voluntarily, alive in the foundations as this was considered auspicious those days. "Raja Ram Meghwal" was promised that in return his family would be looked after by the Rathores. To this day his descendants still live in Raj Bagh, "Raja Ram Meghwal's" Garden.

Mehrangarh (etymology: 'Mihir' (Sanskrit) -sun or Sun-deity; 'garh' (Sanskrit)-fort; i.e.'Sun-fort'); according to Rajasthani language pronunciation conventions, 'Mihirgarh' has changed to 'Mehrangarh'; the Sun-deity has been the chief deity of the Rathore dynasty. [3] Though the fortress was originally started in 1459 by Rao Jodha, founder of Jodhpur, most of the fort which stands today dates from the period of Jaswant Singh of Marwar (1638-78). The fort is located at the centre of the city spreading over 5 kilometres (3.1 mi) on top of a high hill. Its walls, which are up to 36 metres (118 ft) high and 21 metres (69 ft) wide, protect some of the most beautiful and historic palaces in Rajasthan. Khandwaliya community one of the old traditional community had the knowledge of breaking the big stones made this fort with others.

Entry to the fort is gained through a series of seven gates. The most famous of the gates are:

- Jai Pol ("Gate of Victory"), built by Maharaja Man Singh in 1806 to celebrate his victory in a war with Jaipur and Bikaner.
- Fateh Pol, built to celebrate a victory over the Mughals in 1707;
- Dedh Kamgra Pol, which still bears the scars of bombardment by cannonballs;
- Loha Pol, which is the final gate into the main part of the fort complex. Immediately to the left are the handprints (sati marks) of the ranis who in 1843 immolated themselves on the funeral pyre of their husband, Maharaja Man

Within the fort are several brilliantly crafted and decorated palaces. These include, Moti Mahal (Pearl Palace), Phool Mahal (Flower Palace), Sheesha Mahal (Mirror Palace), Sileh Khana and Daulat Khana. The museum houses a collection of palanquins, howdahs, royal cradles, miniatures, musical instruments, costumes, and furniture. The ramparts of the fort house preserved old cannon (including the famous Kilkila), and provided a breath-taking view of the city.

Galleries in Mehrangarh Museum

Elephant's howdahs

The howdahs were a kind of two-compartment wooden seat (mostly covered with gold and silver embossed sheets), which were fastened onto the elephant's back. The front compartment, with more leg space and a raised protective metal sheet, was meant for kings or royalty, and the rear smaller one for a reliable bodyquard disguised as a fly-whisk attendant.

Palanquins

Palanquins were a popular means of travel and circumambulation for the ladies of the nobility up to the second quarter of the 20th century. They were also used by male nobility and royals on special occasions.

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Daulat Khana - Treasures of Mehrangarh Museum[edit]

This gallery displays one of the most important and best-preserved collections of fine and applied arts of the Mughal period of Indian history, during which the Rathore rulers of Jodhpur maintained close links with the Mughal emperors. It also has the remains of Emperor Akbar.

Armoury[edit]

This gallery displays a rare collection of armour from every period in Jodhpur. On display are sword hilts in jade, silver, rhino horn, ivory, shields studded with rubies, emeralds and pearls and guns with gold and silver work on the barrels. The gallery also has on display the personal swords of many emperors, among them outstanding historical piece like the Khaanda of Rao Jodha, weighing over 3 kg, the sword of Akbar the Great and the sword of Timur.

This Gallery displays colours of Marwar-Jodhpur, the finest example of Marwar

The Turban Gallery[edit]

The Turban Gallery in the Mehrangarh Museum seeks to preserve, document and display the many different types of turbans once prevalent in Rajasthan; every community, region, and festival having had its own head-gear.

Tourist attractions in Mehrangarh

National Geological Monument[edit]

The Jodhpur Group - Malani Igneous Suite Contact on which the Mehrangarh Fort has been built has been declared a National Geological Monument by the Geological Survey of India to encourage Geotourism in the country. This unique geological feature is part of the Malani Igenus Suite seen in the Thar desert region, spread over an area of 43,500 km². This unique geological feature represents the last phase of igneous activity of Precambrian age in the Indian Subcontinent [4][5]

The Mataji Temple

The chamunda Mataji was Rao Jodha's favorite goddess, he brought her idol from the old capital of Mandore in 1460 and installed her in Mehrangarh (Maa chamunda was the kul devi of the Pratihara rulers of Mandore). She remains the Maharaja's and the Royal Family's Isht Devi or adopted goddess and is worshipped by most of Jodhpur's citizens as well. Crowds throng Mehrangarh during the Dussehra celebrations.

Rao Jodha Desert Rock Park[edit]

Rao Jodha Desert Rock Park, spreads over 72 hectares, adjoining Mehrangarh Fort. The park contains ecologically restored desert and arid land vegetation. [6][7] The park was created in 2006 to try and restore the natural ecology of a large, rocky area adjoining and below the fort and opened to the public in February 2011. The area in and around the park contains distinctive volcanic rock formations such as rhyolite. with welded tuff, and breccia, sandstone formations. The park includes a Visitors Centre with Interpretation Gallery, a native plant nursery, small shop and cafe.

2008 Stampede



A human stampede occurred on 30 September 2008, at the Chamunda Devi temple inside of the Mehrangarh Fort, in which 249 people were killed and more than 400 injured.

The fort has musicians performing folk music at the entrance and houses museum, restaurants, exhibitions, and craft bazaars. [9] The fort was one of the filming locations for Disney's 1994 live-action film The Jungle Book, as well as the 2012 film The Dark Knight Rises.[10] Principal photography for the latter commenced on 6 May 2011. [11][12] The Emraan Hashmi starrer Awarapan was also shot here. [13] In 2015, the fort was used to record a collaborative album by musicians including Israeli composer Shye Ben Tzur, English composer and Radiohead guitarist Jonny Greenwood, and Radiohead producer Nigel Godrich. The recording was the subject of a documentary, Junun, by the American director Paul Thomas Anderson. [14][15] In March 2018, the film crew for the Bollywood film Thugs of Hindostan used the fort as one of its shooting locations;^[16] actor Amitabh Bachchan left a reflective post about his experience there on his official blog.



Mandore Garden

Mandore Garden, is a town located 9 km north of Jodhpur city, in the Indian state of Rajasthan. The place is known as the birthplace of Ravana's wife mandodari.

History

Mandore is an ancient town, and was the seat of the Pratiharas of Mandavyapura, who ruled the region in the 6th century CE. Even after the disintegration of the Gurjara-Pratihara empire, a Pratihara family continued to rule at Mandore. This family formed an alliance with the Rathore chief Rao Chunda (r. c. 1383-1424) to defend its chiefdom against the Tughluq dynasty of the Delhi Sultanate. Rao Chunda married a Pratihara princess of Mandore, and received the Mandore Fort in dowry; the Fort served as his family's capital until 1459 CE, when Rao Jodha shifted it to the newly-founded city of Jodhpur.[1]

Rao Ranmal Rathore secured the throne of Mandore in 1427. In addition to ruling Mandore, Rao Ranmal also became the administrator of Mewar to assist Maharana Mokal (father of Rana Kumbha). After the assassination of Maharana Mokal in 1433, Ranmal continued as administrator of Mewar at the side of Rana Kumbha. In 1438, Rana Kumbha decided to end the power sharing arrangement and had Rao Ranmal assassinated in Chittor and captured Mandore. Rao Jodha, son of Rao Ranmal, escaped towards Marwar. Approximately 700 horsemen accompanied Rao Jodha as he escaped from Chittor. Fighting near Chittor and a valiant attempt to bar the pursuers at Someshwar Pass resulted in heavy losses amongst Jodha's warriors. When Jodha reached Mandore he had only seven people accompanying him. Jodha collected whatever forces he could, abandoned Mandore and pressed on towards Jangalu. Jodha barely managed to reach safety at Kahuni (a village near present day Bikaner). For 15 years Jodha tried in vain to recapture Mandore. Jodha's opportunity to strike finally came in 1453 with Rana Kumbha facing simultaneous attacks by the Sultans of Malwa and Gujarat. Jodha made a surprise attack on Mandore. Jodha's forces overwhelmed the defenders and captured Mandore with relative ease. Jodha and Kumbha eventually settled their differences in order to face their common enemies, the Muslim rulers of Malwa and Gujarat.

"Mantri Karam Chand Vanshavali Prabandh", written by Jaysom Uppadhyay, states that Bachhrai, also known as Vatsraj was not only a very religious person but a very brave and gallant warrior in Patan (Anilpura). He is a descendant of Raja Sagar, a Deora Chauhan of Delwara. During mid-15th century, on being invited, Bachharaj submitted his services to the Chief of Mandore (later Jodhpur) Rao Jodha, where he was appointed Dewan as he was an able administrator and a strategist. Rao Jodha, then, for the first time, allowed Bachchraj and other Oswals to take part in commanding armies. A holy man sensibly advised Rao Jodha to move the capital to hilltop safety. The construction of the fort thus begun by Rao Jodha in 1459, under the supervision of Dewan Bachhraj and thus Jodhpur was founded. The fort was completed by Maharaja Jaswant Singh (1637-1680). The new fort was named Mehrangarh Fort and situated on a 125 m high hill, is among the most impressive and formidable forts in Rajasthan.

Mandore was the capital of the erstwhile princely state of Marwar (Jodhpur State). before moving to Mehrangarh Fort in Jodhpur.[2]

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Monuments

The historic town boasts several monuments. The now ruined Mandore fort, with its thick walls and substantial size, was built in several stages and was once a fine piece of architecture. A huge, now ruined temple is a highlight of the fort. The outer wall of the temple depicts finely carved botanical designs, birds, animals and planets.

The 'Mandore gardens', with its charming collection of temples and memorials, and its high rock terraces, is another major attraction. The gardens house the Chhatris (cenotaphs) of many rulers of Jodhpur state. Prominent among them is the chhatri of Maharaja Ajit Singh, built in 1793.[2]

Ravan temple is another attraction at Mandore. It is believed to be the native place of Ravan's wife Mandodari. Ravan is treated as son in law among some local Brahmins.[3]

The Mandore Gardens also house a government museum, a 'Hall of Heroes' and a Hindu temple to 33 crore gods. [2] Various artefacts and statues found in the area are housed at the museum. The 'Hall of Heroes' commemorates popular folk heroes of the region. It contains 16 figures carved out of a single rock. Next door is a larger hall called "The temple of 33 crore gods" which houses images of various Hindu deities.[2]



Need of road from Ghoda Gati to Meharangarh Fort

Tourists from India as well as from foreign visit the Meharangarh Fort and Mandore garden during their Jodhpur visit. They usually use the way from Nagori Gate for approaching the fort first then Mandore garden or use the way from Ghoda Gati for approaching the fort after visiting Mandore Garden.

The way from Nagori Gate is very narrow and busy as it is used by both local public and tourists. The narrow and business of the way increases traffic inside the city and also increases air pollution inside the city.



Due to all above reasons, construction of road from Ghoda Gati to Meharangah road makes sense for reduction of traffic and air pollution. That new road will provide healthy atmosphere inside the city and will provide easy approach to tourist for reaching the fort. The new road will provide additional short way to reach national highway (NH 65) from inside the city to local public.



PROVISION IN PROPOSED PROJECT:-

GREEN ROAD (Plantation)



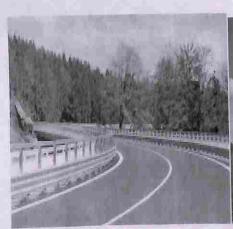


Safe roads for wildlife and people :-

The aim of the SAFEROAD project was to improve our understanding of how and how effectively different road mitigation strategies work in order to find the best way to reduce the impacts of roads on wildlife and simultaneously enhance traffic safety. The project aimed to generate new scientific knowledge on and insights into methods to help prevent wildlife mortality due to animal vehicle collisions and assure that the barrier effect of roads is reduced sufficiently to maintain viable wildlife populations. The aim was also to transfer this knowledge into practical guidelines







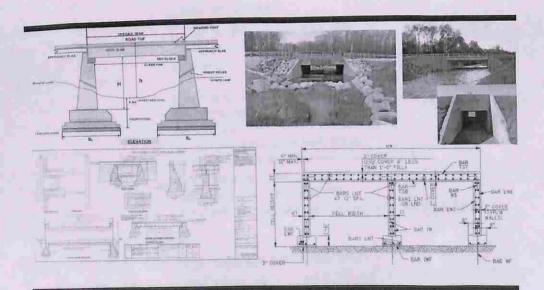




CROSS DRAINAGE WORK:-











TECHNICAL REPORT

Name of Work

Construction of new proposed road from Ghoda Gati to Meharangarh Fort, Jodhpur

Estimated Cost

1090.00 Lacs. Rs.

Jodhpur

Name of Zone

Zone North To reduce and divert the traffic at Nagori Gate and provide

easy apporach to heritage fort

Necessity

Following specifications are proposed in this project-

Specification

1) Hard Rock Cutting 2) Granular sub base Grading III

3) Wet Mix Macadam

4) Dense Bituminous macadam 50 mm thick Grading II (19mm nominal size)- Bitumen @ minimum 4.5 % of mix(VG-30 Grade)

5) Bituminous concrete as per desin mix 40 mm thick Grade-1

Bitumen @ 5.5% of mix with lead of mix material 1 KM VG-30 grade

6) Reinforced cement concrete pipes N.P. 4 for culverts 1000mm dia, 600mm dia

7) Jodhpur sand stone kerb stone

8) Random Rubble stone masonry in cm 1:6

9) Cement concrete in 1 cement : 3 Coarse sand : 6 graded stone aggregate 20mm nominal size

10) Controlled cement concrete pavement M35 grade

Rates

The estimate has been framed on the basis of BASED ON PWD Bldg. BSR, 2019 & Road BSR, 2019, RUIDP BSR 2019

The above estimated submitted for an early technical sanction please.

> Executive Engineer (Zone North) Jodhpur Development Authority Jodhpur

अधिकाषी ग्रिभयम्ता (नोधपुर विकास प्राधिकर जोधपुर

Jodhpur Development Authority, Jodhpur



Name of work :- Construction of new proposed road from Ghoda Gati to Meharangarh Fort, Jodhpur

General Abstract of Cost

D. Highlors	Amount
S.No. Particulars	103791248.62
A Bood Willia	5185374.54
1 Part A:- Road Work 2 Part B:- Road Electrical Work	108976623.16
Total	

Say Rs. 1090.00 Lacs

rechnical Sanction No. DE (16)/ DELEE No. 16 2020-21

Rupees 1090 m Laca Date 15 of 2021

In Words Ten Gores Ninety Laca Only

Chargable Head 5005-3-0-(1)

Computer T.A.
1.D.A. J.D.A.

जीवनावी प्रभियन्ता (१. विकास प्राधिकरण जोवपुर विकास प्राधिकरण

Jodhpur Development Authority, Jodhpur



Name of work :- Construction of new proposed road from Ghoda Gati to Meharangarh Fort, Jodhpur

General Abstract of Cost

	0 1 100	Amount
S.No.	Particulars	103791248.62
1 Part A:- Road	Work	

Say Rs. 1038.00 Lacs

Executive Engineer, Civil (North)
J.D.A., Jodhpur

	Particulars	Amount
S.No.		5185374.54
2 Part B:- Ro	oad Electrical Work	

Say Rs.

52.00 Lacs

Executive Engineer, Electrical (North)
J.D.A., Jodhpur

जीवापुर विकास प्राधिकरू जोवापुर कोवापुर



JODHPUR DEVELOPMENT AUTHORITY, JODHPUR

Name of work :- Construction of new proposed road from Ghoda Gati to Meharangarh Fort, Jodhpur

ESTIMATE

Based on PWD Building and Road BSR 2019, RUIDP 2017

Qty. Unit Rate Amount

				-		Measureme	nt		Qty.	Unit	Rate	Amount
			nem (Part A; Road Work)	Nos.	L	В	H			-		
	BSR	-	to eking/disposal of									
1		surp	n work in excavation, including stacking/disposal of lus material with all lifts and lead upto 495 metres, usive of compensation of earth [MoRTH specification : use 301 to 305]Chiseling/wedging out rock where size 301 to 305]Chiseling/wedging out rock where size and the size of the size o									
	R314	blas	use 301 to 305]Chiseling/wedging out rock whete size 301 to 305]Chiseling/wedging out rock whete ting is prohibited.Hard Rock, with lead upto 50m.and lif to 0.5m.									
-	-	Ros	k cutting	0.		400	18	3.2	11520.00	Cum		
-		cha	ingae from kila road		1	200	18	2	7200.00	Cum		
		1130	-530		1	400	18	1.5	10800.00	Cum		
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_		22	00-2500					_	33030.40	Quitt	333152	
2	RUID	To Co ot to b	ial instruction of embankment with approved material trained from borrow pit with all lifts and leads, transporting site; spreading, grading to required slope and compact or vibratory roller 8-10 tonne to meet requirement of table 10-2 including cost of compensation for earth taken from the complete as per MoRT&H specification claus 105. (Lead taken upto 5 km)	1								0
		15	00. (=	-		100	18	1,52	1778.40	Cum		
					0.5	130	18	2.5	4500.00	Cum		
-		F	rom kita road		75	670	18	5.7	51556.50	Cum		
					0.5	200	18	3,5		Cum		_
				2,00		500:00	1.00	0.50	2500.00 -39650.40	cum	-	
	-	-	perm						26984.50		163.00	4398473.
		-	ess available material						20904.50	-		
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	٨	R 4 2 3	Providing and laying granular sub-base material having P.I.not more than 6, including spreading in layers not exceeding 150 mm compacted thickness, and consolid by 8-10 tonne power roller to required camber and gra- including cost of water and hire charges of machinery, including T&P with all lead (Compacted thickness to b measured), as per MORTH specification table 400-1, 40 1For grading-III with CBR value not less than 20, to atta 100% proctor density.	de d		-1-	7.00	0.15	5250.00) cur	n 300.00	157500
			for road	2.	00	2500.00	7,00	0.15	02.00.00			
		-	Providing, laying, spreading and compacting soline aggregate of as per table 400-12 and 400-13. Wet Mis Macadam specification including premixing the materia water to OMC inwet mix plant as per approved design carriage of mixed material 5y Tipper to site laying in ur layers with motor grader/F L.boder/paver finisher.	mix, niform sub								0
	5	R.5	a base/ base octate of a before the desired compacting with vibratry roller to achieve the desired including lighting, guarding, barricading and maintand diversion etc. (MoRTH specification: Clause 406) by mechanical mean with lead up to 20 Km.	(C (V)								
	5	R.5	compacting with vibrotry roller to achieve the desired including lighting, guarding, barricading and maintand diversion etc. (MoRTH specification: Clause 406) by mechanical mean with lead up to 20 Km.	801	00	1750.00	7.00	0.23	5635.0	00 C	um 880.0	0 49588
	6	R.S	compacting with vibrotry roller to achieve the desired including lighting, guarding, barricading and maintand diversion etc. (MoRTH specification: Clause 406) by mechanical mean with lead up to 20 Km. for road Providing and applying primer coat over prepared su granula; base with bitumen emulsion as per IS: 887 manufacturer's specifications @ 6 kg /10 sqm with a groselled of towed bitumen pressure sprayer equipp	inface or	2,00	1750.00	7.00	0.23	3 5635.0	00 0	um 880.0	0



(3)

							Measurem	ent			Qty.	Unit	Ra	te	Amount
T	BSR			Item (Part A: Road Work)	Nos.	L	В		Н	+					11
	R.6.	Pro- ,with spe bitu uni	cificat men p formly	and applying tack coat on the prepared surface men emulsion as per IS: 8887 & manufacturer's ions @ 2 kg /10sqm. With a self propelled or towed pressure sprayer equipped for spraying the material at specified rates and temperatures as per specification CI.503, 501.5.2,112 (Including of Road Surface)				7.00		2	24500.00	sqm	7	35	0
	R.6	for Pr pr ass in bit it i	road ovidin epares s per la cludin nder ause ppers 05.3.5 ropelle yred ro	g and laying Dense Bituminous Macadam on disurface with specified graded crushed aggregates able 510 and design mix for base/binder course g loading of material with F.E loader heating of g loading of material with F.E loader heating of aggregate and filler in approved hot mix plant as per 3.5 of manual transporting the mixed material by and laying with sansor paver finisher as per clause is to the required level and grade rolling by self to the required level and grade rolling by self of the provided property for the desired power rollers and vibratory rollers or pneumatic players of the desired of the provided prov		0 1	750.00	7.35							0
					2	2.00	1750.00	7.00	-	0.05	1225.00	cun	n 55	37.00	6782825
9	F	R 6711	on pritable aggrecement of the community	ding and laying bituminous concrete as per design mi- pepared surface with specified graded stone as per 500-16 for wearing course including loading of gate with F.E loader and hot mixing of binder and 29 egate with F.E loader and hot mixing of binder and 29 east filler with aggregates in approved hot mix plant as stause 6.5 of manual Transporting the mix material wit ear to paver and laying with sensor paver finisher (as pe se 507.3.5) to the required level. grades and rolling w atory compactor and pneumatic tyred roller 150-250 TP=0 7 Mpa, to achieve the desired density (approved the department) excluding cost of primeritack coat NRTH Specification: Clause -507.112)Grade-I. Bitume 5.5 % of mix. With lead of mix material 1 KM VG-30	x % h er rith										0
			@ gra	5.5 % of mix vviiii lead of		2.00	1750.00	7.0	0	0.04	980.00	CL	ım (561.00	6429780
	10	R.7.1	for Pro- inc 80 sp 2 ad	road by the property of the pr	nd ne						1500.0	00 6	gm		0
		-	or	road		2.00	2500.0 1250.0	0 0.	10	177	250.0	0 5	qm		0
-			- 01			6.00	14.00		00		1834.0		qm	455.00	834470
	111	R7	7.69	otal providing & fixing Two way reflective Plastic body raiset cad studs with anchor with shank 100x100x19.8 special effective elements 19 degree tilted etc. complete made swareflex at 9 m. centre to centre on edge lenes, lane if and 1 m. centre to centre on pedestrai crossing includir fixing, cost of conveyance of all materials to site includir labour and hire charges for machineries involved etc. complete as per standard specifications and directions the Engineer-in-charge.	by nes ng						5000	0	nos	327.00	163500
+	-														0
	12	Ri		Providing and laying Random Rubble masonry in four upto a depth of 1.50 metres and 1.50 metres above G /Bed level [MoRTH Specfication: Clause 1000/1400] Cement sand mortar 1.6	dation round	60.0 60.0	0 15.1	00	0.90 0.75 0.60	0.90 0.90 0.90	607 486		cum		0
					_				0.45	3.30		5,50	cum		
						60.0	0 15.	00		3.30 0.90	97	5.50 20 5.20	cum		94853





				Measure	mant		Qty.	Unit	Rate	Amount
S.No.	BSR	Item (Part A: Road Work)	Nos.		3	Н				
13	B.3.2.4	Providing and laying in position cement concrete including curing compaction etc. of specified grade excluding the cost of centering and shuttering All up to plinth level IS 456- 2000:1:3:6 (1Cement:3 Course Sand:6 Graded stone aggregate 20 mm nominal size		15.00	1.05	0.15	141.75	cum		0
	_	plain concrete	60,00	13.00						
							141.75	cum	3127.00	443252 2
		Total					13,1176			0
	e ita									
14	R.10.17.	Providing and laying reinforced cement concrete pipes N.P.4 for culverts including jointing ends and fixing collar with cement mortar 1:2 [MoRTH Specification: Clause: 1000/2900] 1000 mm dia	45.00	21.00	m		315.00	m	6394.00	2014110
			15.00	21.00						
15	R 10 17	Providing and laying reinforced cervisians and fixing collar N.P.4 for culverts including jointing ends and fixing collar with cement mortar 1:2 [MoRTH Specification : Clause : 1000/2900] 500 mm dia	15.00	21.00	m		315.00	m_	2885 00	908775
		For crossing water Supply and fixing Jodhpur sand stone Machine cut Kerb Supply and fixing Jodhpur sand stone Machine cut Kerb								
	0.00		ıa							
16	B-6.9	mortar 1:4 with pigment including Caratters	2.00	2500.00	- 12 - 1		5000.00	m	714.00	3570000
17	R7.1	To make divider and footpath Providing and fixing of retro- reflectorised inclusive cautionary, mandatory and informatory sign as per IRC-67 made of high intensity grade sheeting lettering, border & signs fixed over aluminium sheeting, 1.5 mm thick, fixed or mild steel angle iron frame 50mmx50mmx6mm supported on a mild steel angle iron post 75mmx75mmx6mm upto tho of sign board, length of post from bottom of sign board is 2.85m, upto foundation level post duly painted in black white synthetic enamel, fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 45 Cm x 45 Cm x 60Cm, 60 cm below ground le as per approved drawing & as per MORTH specification 0 801 equilateral triangle	n nee i &				10,00	Nos	2286.00	22860
1	8 13	Providing and fixing of retro- reflectorised inclusive cautionary, mandatory and informatory sign as per IRC-6 made of high intensity grade sheeting lettering, border & signs fixed over aluminium sheeting, 1.5 mm thick, fixed omid steel angle iron frame 50mmx50mmx6mm supporter on a mid steel angle iron post 75mmx75mmx6mm upto top of sign board, length of post from bottom of sign board is 2.85m upto foundation level post duly painted in black white synthetic enamel, fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 45 Cm x 45 Cm x 50Cm, 60 cm below ground as per approved drawing & as per MORTH specification 801.	on d the rd k & evel				10.00	Nos	3817.00	38170
	19 [Providing and fixing of retro- reflectorised inclusive cautionary, mandatory and informatory sign as per IRC-6 made of high intensity grade sheeting lettering, border & signs fixed over aluminium sheeting, 1.5 mm thick, fixed mild steel angle iron frame 50mmx50mmx5mm support on a mild steel angle iron post 75mmx50mm upto top of sign board, length of post from bottom of sign board, length of post from bottom of sign board, so the sign board of post from bottom of sign board, length of post from bottom of sign board, so the sign board in the second of the synthetic enamel, fixed to the ground by means o properly designed foundation with M-15 grade cement concrete 45 Cm x 45 Cm x 60Cm, 50 cm below ground as per approved drawing & as per MORTH specification 80 cm x 60 cm rectangular	on ed the ard lk &				8:00	Nos	5261,00	42088





No.	BSR	Item (Part A: Road Work)		Menst	rement		Qty.	Unit	Rate	Amou
			Nos.	L	8	Н				
0	R.B.12 S	surveying road alignments to prepare plan, L-section, X- ections and to compute earthwork quantities including ompass survey at required points, levelling at 25 m inerval or L-sections and 50 m interval for x-sections up to desired width, preparing and submission of plan, L-section (not nore than 500 m length in one sheet) and X-section in A-4 itize showing various details like geometrical datas, habitations, electric lines, water courses and other sprcial eatures, computation of earth work after marking desired grade line, marking sufficient Bench Marks in field to check the survey etc.complete as per direction of enginner - in sharge.	1.00	2.50			2.50	Km	3000.00	750
1	H.1.3	Supply & Stacking good earth at site complete including oading unloading and transportation etc.	1.00	2500.00	1.20	0.30	900.00	Cum	125.00	11250
22	R.10.4	Providing and laying RCC M20 mix with stone aggregate 20mm (nominal size) mechnically mixed and vibrated for RCC work in slab in superstru-cture upto 4 metre above 1.5 metre lovel from Bed/ Ground level, excluding steel reinforcement but including centering and shuttering laid in position. [MoRTH Specification: Clause 1000/1700]			L					à
		culvert slab	3.00	21.00	4.00	0.20	50.40	Cum		
-		beam	6.00	21.00	0.45	0.60	34.02	Cum		
_		Total					84.42	cum	4148.00	350174
23	R.10.62	Providing and fabricating steel reinforcement fot R.C.C works including cutting, bending, placingin position and binding complete including cost of binding wire .[MôRTH Specification: Clause 1000/1800] Cold twisted bars								
-	-	culvert slab steel @ 100 kg/cum of concrete in slab	84.42	cum x	100	kg/cum	9	Tones	52296.00	47066
24	R 9.28	Supply & planting of shady plants (Neem, Peepal, Goolar, Jamun, Imili or other specified) along road side including the following activities: 1) Preparation of soil including cleaning & removing of unwanted shurbs removal of stones & garbage, 2) Supply of plant at site of two years of age & height more than 1.50 mtr, 3) Supply of dry manure (Farm yard manure organic) 4) Supply of insecticides 5) Digging of pits size 60x80x80 cms. Including removal of stones, Manuring application of insecticides & watering at least 15 litre per plant after planting. 6) Half brick circular tree guard in second class bricks, internal dia 1.25 meter and height 1.20 meter above ground and 0.20 meter below ground, bottom two courses laid dry and top three courses in cement mortar 1.6 (1 cement: 6 sand) and the intermediate courses being in dry honey comb masonry, as per design complete. 7) Watering to Plants. 8) Maintenance of Plants by the contractor including of pits/bids preparation of Thavala Hoeing weeding etc. & application of intersecticides etc & security. If the plant die during maintenance contractor has to replace same height plant at his own cost. Maintenance of plants by the contractor including of					1000	Each	1353	135300
25	H.2	pits/bids watering preparation of Thavala Hoeing weeding etc. & application of insecticides etc. & security if the plant die during maintenance contractor has to replace same height plant at his own cost.	36	months x	1000	plants	36000	P.Pla nt P. Mont h	20	720000
26	RUIDP 39.34	Providing and fixing of RCC pre cast tree guard consisting of four panels of size 1800mm (Height) X 600mm (Width) X 35mm (thickness). Size of opening: 100mm X 100mm. All the panels shall be manufactured with monolithic legs of size 50 x 35 mm, the legs of the panels shall be 0.5 m below ground level. All the four Panels shall have a space for display of Name etc. preferably at middle level. RCC panels to be manufactured with M-30 grade of concrete using vibro-compaction process using jointless FRP moulds so as to achieve shuttering finish. RCC panels are to be suitably reinforced to promote long use and to provent damage during handling, transportation & erection as per drawing & specifications.					1000)	Each	1820	182000
27	R 14.4	not less than 40 Kg. thickness not less than 150mm &								
		specific gravity not less than 2.65.								



		Item (Part A: Road Work)		Meas	urement	Ter.	Qty.	Unit	Rato	Amount
lo.	BSR	INC	05, L		В .	H		-		
× i	R 16.1	Construction of dry lean cement concrete sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS; 383, the size of coarse aggregate not exceeding 25 mm; aggregate cement ratio not to exceed 15:1, aggregate gradation after blening to be as per Table 300-1, cement content not to be less than 150 Kg/Cum, optimum moisture content to be determined during trail ength construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant as per mix design, transported to site, laid with a hydrostatic paver with electronic sensor, compacting with 8-10 tonne vibratory roller, finishing and curing complete as per MoRTH specification clause 601.	2	750	0.15	7	1575	Cum	2032	3200400
_		PCC below cement pavement Providing and laying controlled cement concrete for cement								
9	R 16.7.1	Providing and laying controlled centerious and vibrations concrete pavements including mixing and vibrations concrete with necessary needle vibrators and surface with screed board vibrating complete in all respect with stone aggregate (crusher broken) including anti-skid textured finish to required camber! superelevation and grade including curing etc. as per specification (-do-) with cement concrete M-35 grade		Ξ			4676	0	6150	8115975
		Cement pavement Providing and erecting a "W" metal beam crash barrier	2	750	0.15	7	1575	Cum	5153	8115975
36	R.7.34	Providing and erecting a " frietal visual sheet metal beam rail, 70 cm above road/ ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2m. centre-to-centre, 1.8 m. high, 1.1 m below ground / road level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS: 1367 and IS: 1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per MORTH specification Clause 811.							2042	7357500
		along road	2	1250			2500	M	2943	7357500
31	B 3 2 5	Providing and laying in position cement concrete including curing compaction etc. of specified grade excluding the cost					445405	0.00		
		Haunching	15.00	2.85	18	1.5	-610.2	Cum		
	-		-30	1.13	18	1.5	805.95	Cum		-
-			15.00	0.47	18	1.0	-253.8	Cum		
			130	0.47	10		1096.2	Cum	3596	3941935
32	B 4 1	total Centering and shuttering with plywood or steel sheets including strutting, propping, bracing both ways and removal of formwork for foundations in basements rafts, footings, strap beams, bases of columns, etc. up to plinth level.								
		Haunching	30.00	2.85	18		1539	Sqm		
			30.00	1.99	18		1074.6	Sqm		
		total					2613.6	Sqm	136	355449
								-		
-									Total	00001700
									rotai	99321769
						Add 4.5%	for W.C. & Co	ontigene	y Charges	4469479

Junior Enginor J.D.A. Jodhpur (Vivele Sout) Assistant Engineer

Executive spineer J.D.A. Jodhpur

बिषणांची प्रियम्ता (१. बोधपुर विकास प्राधिकस्थ बोधपुर



JODHPUR DEVELOPMENT AUTHORITY, JODHPUR $\underline{\text{G-SCHEDULE}}$

Name of work :- Construction of new proposed road from Ghoda Gati to Meharangarh Fort, Jodhpur

ver l	BSR	Item (Part B: Road Electrical Work)	Qty.	Unit	Rate	Amount (Rs.)
No 1	Code E201900 S	Supply and erection of GI Octagonal / Conical pole of following length and dimension as per table E- O with base plate on the cement concrete foundation of M-20 grade (1:1.5:3) with the help of anchor bolts of grade 6.8 (IS: 1367 P. III.) The pole shall have a weatherproof flush door and ocking arrangements. The complete work shall be supervised and certified by the manufacturers for osking arrangements. The complete work shall be supervised and certified by the manufacturers for osking arrangements. The complete work shall be supervised and certified by the manufacturers for osking arrangements. The complete work shall be supervised and certified by the manufacturers for osking arrangements. The complete work shall be supervised and certified by the manufacturers for obtaining single longitudinal seam weld and hot dipped galvanised internally & externally in shape. having single longitudinal seam weld and hot dipped galvanised internally & externally in	80.00	Nos	16800.00	1344000.00
2	E202001	Supply. Erection and Fixing of hot dipped galvanised Overlang 146.3 x 3.25 mm) over the existing poles Double arm overlang.	80.00	Nos.	1560.00	124800.00
3	E304400	P&F of IP65 protected LED Street Light Luminaire of existing closeds for the coated single piece pressure die cast aluminum with heat dissipation fins on housing with UV coated single piece pressure die cast aluminum with heat dissipation fins on housing with UV coated single piece pressure die cast aluminum with heat dissipation fins on housing with UV coated Scale Provided PCFT outpened Class cover (from 45W ortwards) and should be secondary lens on each LED The System level Luminaire efficacy >=100 with High Power LEDs of CREE/NICHIA/LED The System level Luminaire difficacy >=100 with High Power Factor >0.95 CREE/NICHIA/LED STEED The System of the UV coated System o	160.00	Nos	9275.00	1484000.00
4	E110100	P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS:7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, lind class bricks covering, refilling earth, compaction of earth, making necessary connection, testing etc. as required of size Group-Ist.	4888.00		170.00	680000.00
		d earn Arm (Armou(ed)	4000.00 300.00	Mtr.	178.00	53400.00
5	E 1101040 E 1101050 E150511	18.0 Sq. mm 4 core Arm (Armoules) Maintenance free Gel Earthing with Pipe in pipe / Pipe in strip, technology, filled with anti- Maintenance free Gel Earthing with Pipe in pipe / Pipe in strip, technology, filled with anti- corrosive conductive compound (CPRI Tested) below the ground in 150 - 200 mm die aarth pit & corrosive conductive compound (CPRI Tested) below the ground in 150 - 200 mm die archipet surroxinding filled with required mineral. filling compound (MFC should have hygroscopic property surroxinding filled with required mineral filling compound in 150 - 200 mm x 300mm complete testing of earth resistance as required of following sizes. With Pipe in Pipe Technology (Inner pipe dis 7 Outer pipe dis 180 - 100 micron Gi Costing With Pipe in Pipe Technology (Inner pipe dis 7 Outer pipe dis 180 - 100 micron Gi Costing With Pipe in Pipe Technology (Inner pipe dis 7 Outer pipe dis 180 - 100 micron Gi Costing With Pipe in Pipe Technology (Inner pipe dis 7 Outer pipe dis 180 - 100 micron Gi Costing With Pipe in Pipe Technology (Inner pipe dis 7 Outer pipe dis 180 - 100 micron Gi Costing With Pipe in Pipe Technology (Inner pipe dis 7 Outer pipe dis 180 - 100 micron Gi Costing With Pipe in Pipe Technology (Inner pipe dis 7 Outer pipe dis 180 - 100 micron Gi Costing With Pipe in Pipe Technology (Inner pipe dis 7 Outer pipe dis	8.00	Nos	6150.00	49200.00
6	E040106	(IS 694) of 1.1 kV grade and approved including making connections etc. as required, 1 x 2.5 sq min.	3000.00	Mtr.	21.00	63000.00
7	E294100	over load protection, timer to switch our an independent without hampering of preset time and over ride facility for maintenance purpose without hampering of preset time and over ride facility for maintenance purpose. Suitable for 15 kw load (three phase) including contactor, MCB, cable glands, terminal block and looking arrangement G-ist Suitable for 15 kw load (three phase) including contactor, MCB, cable	2.00	Nos.	21550.00	43100.00
1	E210100	olands, terminal block and locking arrangement glands, terminal block and locking arrangement. Supply and eraction of P.C.C./P.C.C. pole as per REC manual no 15/1979 conforming to 15 2905/1996 as per requirement of sec 3 in alignment, including excavation of pit and back filling with stone aggregate/boulders and soil in 0.45 m conso-lidating each deposited layer of 0.45 m by ramining and watering etc complete in all respect 9.0 Mtr long (400 Kg) and placed by the proposition of the p	35.00	Nos.	4328.40	151494.00
	g E210701	Supply and fixing of 'V' type cross arms made of MS channel on the existing poles complete including all necessary nut and bolt atc with clamps as per Discom specification, 11kV cross	35.00	Nos	850.00	29750.00
- 6	10 E210811	Supply and fixing of top hamper on the existing pole complete including nut botts at as	35.00	Nos.	315,00	11025.00
	11 E210600	Supplying and drawing overhead steel core Aluminium conductor (ACSR) ISI marked(IS 398 part III-1996) on existing cross arms through insulator with all necessary T&P required including binding and twisting etc. complete in all respect as required as per Discom specification. 100 sqmm of (6/4.72 mm+1/1.57 mm) (Dog)	3500.00	Mtr.	89.0	311500 00
	12 €210200	Supply and eraction of GI stay set as per Discom specification complete with long stay rod with anchor plate including stay clamps turn buckle and 'GI stay were appreciate through strain insulator, in cement concrete 1.3 6 including excession of pit-ic-filling set as read 'Stay set of dia 20 mm. 2 mm long stay rod and anchor plate 380x380x6 4mm		Nas	1319.00	19785.00
	13 E21190	Supply and fixing 100 Amp. 11kV Horn gap fuse set IS 9385 on existing DP structure with 6 nos 2 AkV/22kV post insulator (IS:5350 pair IIII), hot dipped hard ware,fuse wire of required size etc complete in all respect as per specification given by Discom. (Type tested by ERDAVCPRI) Supply and fixing of 11kV, 400 Amp 3pote, central pot rotating double break type isolator (IS:9921).	1.00	Set	6050 00	6050.00
	14 E21200	part I (oV) without earth blade operating mechanism with GI spring loaded reverse loop type fixed		Set	13150.00	13150.00



(20/

		Total Say Rs.			_	DE.GO ENG
		Add JdVVNL Charges				52.00 Lac
	E211403	Fdd 4.5% for W.C. & Contigency Charges				500000.00 5185374.54
	E211401	Total				201762.54
	104	B & S Ivog hardware	10.00	1.00		4483612.00
20	E211400	distance of 300 mm on existing pracket incoding and nuts etc (as per specificational Discom).	18.00	Nos.	560.00 406.00	10080.00 7308.00
19	E211300	distance of '300 mm of existing of Discom). and nuts etc (as per specifi-cation of Discom). Supply and fixing 11 KV Disc insulator (IS 731/1971) with minimum creepage and fixing 11 KV Disc insulator. Supply and fixing 11 KV Disc insulator (IS 731/1971) with minimum creepage of 300 mm on existing bracket including all accessories like hot dipped GI spindle distance of 300 mm on existing Discom).		-		
-		grade to achieve the fleego. Supply and fixing 11 KV pin 'insulator (IS 731 / 1971) with 'minimum creepage Supply and fixing 11 KV pin 'insulator (IS 731 / 1971) with 'minimum creepage Supply and fixing 11 evision bracket including all 'accessories like hot dipped GI 'spindle	105.00	Nos.	135.00	14175.00
18	E211800	Supply and fixing of piller box made of 2 mm thick powder coated CRCA sheet of 415 voltage. Supply and fixing of piller box made of 2 mm thick powder coated CRCA sheet of 415 voltage. Supply and fixing of piller box made of 400 a wire triple pole and neutral type, complete in all respect as required. Including knife switch of 400 a wire triple pole and neutral type, complete in all respect as contacts base, brass studs and nuts, copper amp, rating . HRC fuses with copper one piece U contacts base, brass studs and nuts, copper amp, rating . HRC fuses with copper one piece U contacts base, brass studs and nuts, copper amp, rating . HRC fuses with copper one piece U contacts base, brass studs and nuts, copper amp, rating . HRC fuses with copper one piece U contacts base, brass studs and nuts, copper amp, rating . HRC fuses with copper one piece U contacts base, brass studs and nuts, copper amp, rating . HRC fuses with copper one piece U contacts base, brass studs and nuts, copper amp, rating . HRC fuses with copper one piece U contacts base, brass studs and nuts, copper amp, rating . HRC fuses with copper one piece U contacts base, brass studs and nuts, copper amp, rating . HRC fuses with copper one piece U contacts base, brass studs and nuts, copper amp, rating . HRC fuses with copper one piece U contacts base, brass student of the piece U contacts base, brass student on the piece U contacts brass student on the piece	1.00	Nos.	42500.00	42500.00
17	E150810	for laying earth conductors of the state of 415 volts a phase of 415 volts a phase of 410 volts at 2 mm thick powder coated CRCA sheet of 415 volts at 400 volts at 2 mm thick powder coated CRCA sheet of 415 volts at 400 volts at 2 mm thick powder coated CRCA sheet of 415 volts at 400 volts at 2 mm thick powder coated CRCA sheet of 415 volts at 400 volts at 2 mm thick powder coated CRCA sheet of 415 volts at 400 volts at 2 mm thick powder coated CRCA sheet of 415 volts at 400 volts at 2 mm thick powder coated CRCA sheet of 415 volts at 400 volts	20.00			
	E212100	breaking to be installed on the same	20.00	Mtr.	667.00	13340.00
3	2 122.00	'of poles) made of Mo English specifications MS flat 50x6mm as per Discom specifications MS continued fixing of distribution type Lightening arrestor 9 kV, 10 kA (IS:3070) with mounting	1.00	Set	2385.00	2385.00
15	E212200	Supply and fixing double pole structure for 11/0.4 KV substation 'as per Discom specification complete in all respect as required including 'nuts and bolts etc (excluding the cost specification complete in all respect as required including 'nuts and bolts etc (excluding the cost specification of MS channel of '4 nos 100 x 50 x 6 mm and 4 nos '75 x 40 x 6 mm and 'of poles) made of MS channel of '4 nos 100 x 50 x 6 mm and 4 nos '75 x 40 x 6 mm and 'of poles) made of MS channel of '4 nos 100 x 50 x 6 mm and 4 nos '75 x 40 x 6 mm and '0f poles) made of MS channel of '4 nos 100 x 50 x 6 mm and 4 nos '75 x 40 x 6 mm and '0f poles) made of MS channel of '4 nos 100 x 50 x 6 mm and 4 nos '75 x 40 x 6 mm and '0f poles) made of MS channel of '4 nos 100 x 50 x 6 mm and 4 nos '75 x 40 x 6 mm and '0f poles) made of MS channel of '4 nos 100 x 50 x 6 mm and 4 nos '75 x 40 x 6 mm and '0f poles) made of MS channel of '4 nos 100 x 50 x 6 mm and '4 nos '75 x 40 x 6 mm and '0f poles) made of MS channel of '4 nos 100 x 50 x 6 mm and '4 nos '75 x 40 x 6 mm and '0f poles) made of MS channel of '4 nos 100 x 50 x 6 mm and '4 nos '75 x 40 x 6 mm and '0f poles) made of MS channel of '4 nos 100 x 50 x 6 mm and '4 nos '75 x 40 x 6 mm and '0f poles) made of MS channel of '4 nos 100 x 50 x 6 mm and '4 nos '75 x 40 x 6 mm and '0f poles) made of MS channel of '4 nos 100 x 50 x 6 mm and '4 nos '75 x 40 x 6 mm and '0f poles) made of MS channel of '4 nos 100 x 50 x 6 mm and '4 nos '75 x 40 x 6 mm and '4 nos '75 x 40 x 6 mm and '4 nos '75 x 40 x 6 mm and '75	1.00	Set	9570.00	9570,00

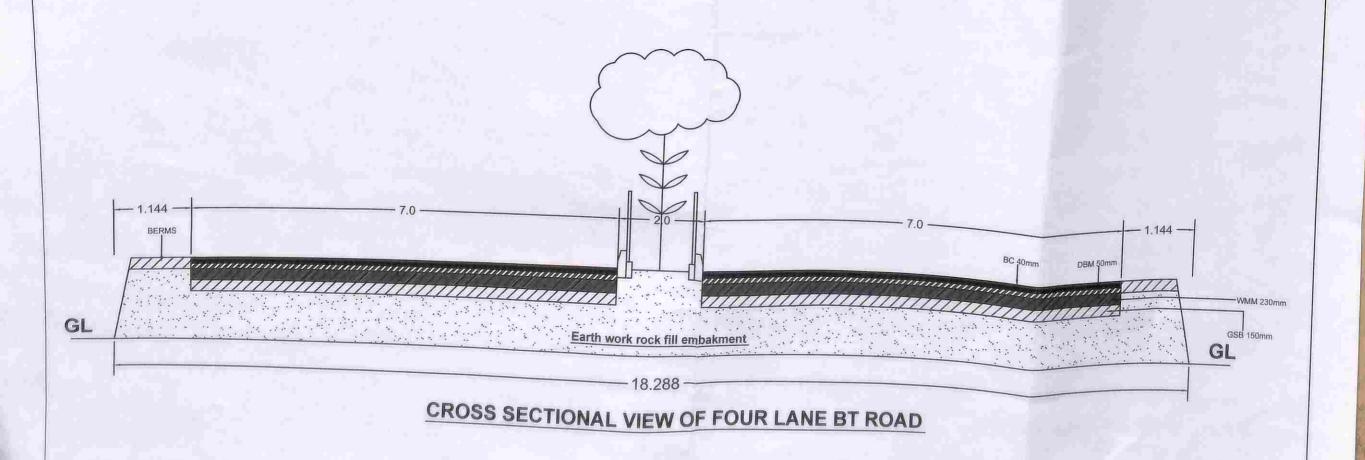
Junior Engineer J.B.A., Jodhpur

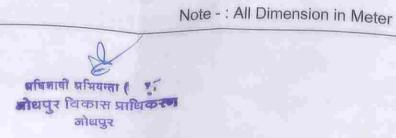
Assistant Engineer J.D.A., Jodhpur

Executive Engineer J.D.A., Jodhpur

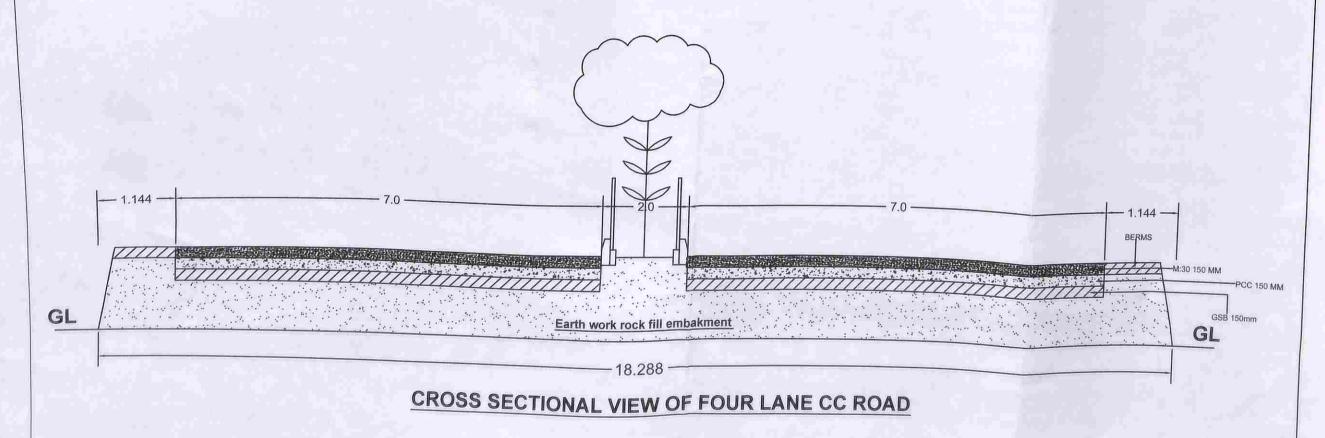
विकाषी ग्रियन्ता (ं. बोधपुर विकास प्राधिकरः बोधपुर

NAME OF WORK -: CONSTRUCTION OF NEW PROPOSAL ROAD FROM GHODA GHATI TO MEHARANGARH FORT JODHPUR





NAME OF WORK -: CONSTRUCTION OF NEW PROPOSAL ROAD FROM GHODA GHATI TO MEHARANGARH FORT JODHPUR



Note - : All Dimension in Meter

