DESIGN, BUILD, OPERATE AND TRANSFER FOR THE WORK OF DRINKING WATER SUPPLY SCHEME TO TERGAON, KAWALWAD AND OTHER 111 VILLAGES IN HALIYAL TALUK IN UTTAR KANNADA DISTRICT, KARNATAKA STATE, INDIA

1. INTRODUCTION OF THE PROJECT: Project area comprises the Rural areas of Haliyal Taluka of Uttar Kannada district in northern coastal part of Karnataka state. Haliyal Taluka is located in North east part of Uttar Kannada district and in a distance of about 120.00 km from district head quarter. Water supply to villages of Haliyal taluka depended on ground water i.e. tube wells and open wells as source. Though Haliyal Taluka receives average rainfall fall of about 1166.30 mm and some part of this scheme is in thick forest and receives rainfall about 2000 to 2200 mm but due to highly undulating topography and highly permeable shallow aquifers allow ground water recharged during monsoon as base flow, due to which maximum habitations are facing acute shortage of water due to depletion of ground water resources during peak summer. Ground water sources are either depleting during summer season or also contaminated due to chemical contamination which envisage permanent water supply to this area and accordingly Rural Drinking Water and Sanitation department initiated a comprehensive project to fulfill water demand of Haliyal taluka rural area of Uttar kannada District. M/S B. R Patil Engineers and contractors become the lowest bidder for this work and enter in to agreement for execution of this scheme and as per tender conditions concept report and hydraulic designs of this scheme prepared and being submitted.

2. PROJECT AREA, POPULATION & WATER DEMAND

2.1 DISTRICT PROFILE

Uttara Kannada is a district in the Indian state of Karnataka. It is bordered by the state of Goa and Belagavi District to the north, Dharwad District and Haveri District to the east, Shivamogga District and Udupi District to the south, and the Arabian Sea to the west. The city of Karwar is the administrative headquarters of the district. Sirsi, Dandeli and Bhatkal are other major towns in the district. The district has 2 agroclimatic divisions, namely: The district has 12 taluks, namely, Karwar, Angola, Kumta, Bhatkal, Honnavar, Siddapur, Sirsi, Yalapura, Mundagoda, Supa (Joida), Haliya and Dandeli.

Dandeli Wild life Sanctuary The Dandeli Wildlife Sanctuary, which is surrounded by the River Kali, is a rare picnic spot for wildlife. Spending time with rare birds, tigers, elephants, deer, bison, a crocodile camp and various animals provides a refreshing festival. The sanctuary is the second largest wildlife sanctuary in Karnataka

2.2 DEMOGRAPHICS.

According to the 2011 census Uttara Kannada has a total population of 1437169 and has rural population and urban population of 1018188 and 418981 respectively. The district has a population density of 140 inhabitants per square kilometre (360/sq mi). Its population growth rate over the decade 2001-2011 was 6.15%. Uttara Kannada has a sex ratio of 979 females for every 1000 males.

2.3 POPULATION PROJECTION AND WATER DEMAND :

List of habitations covered under this project in Haliyal taluka provided in technical bid of tender document. List of villages, population and water demand is considered as per the details given in bid. As per document census 2011 population of 113 habitation is 102580 and projected population for year 2047 is 152008 population growth rate 13.96 % considered for projecting future population. As per NORMS 85 LPCD of rate of water supply considered and accordingly following is the population projection and water demand.

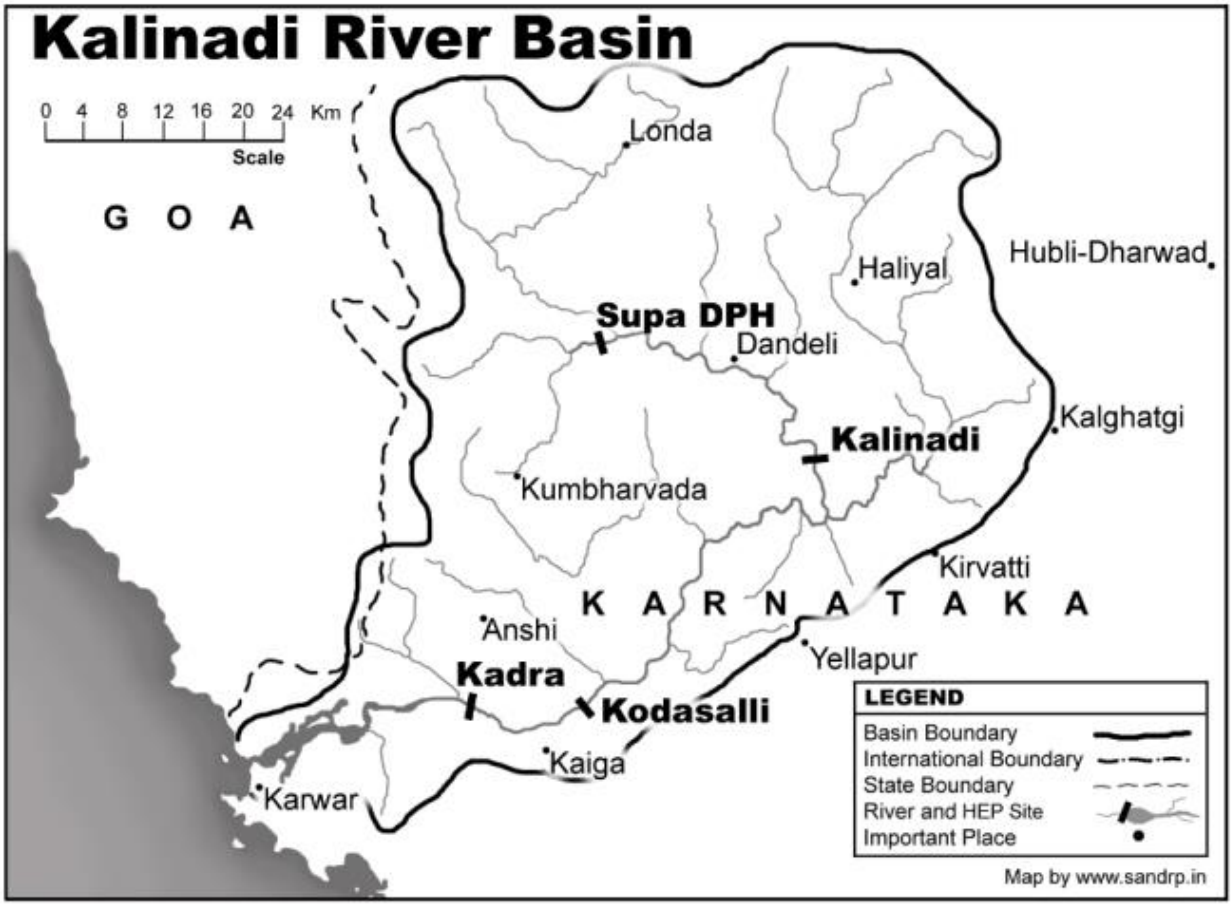
Total habitations	Projected Population				LPCD	Water Demand in ltr/Day	Water Demand in ltr/Day	Raw Water Demand for year	Raw Water Demand for year
	2011	2017	2037	2047		2037	2047	2037	2047
113	**93954**	**102580**	**133332**	**152008**	**85**	**11333220**	**12920680**	**14166525**	**16150850**

3. PROPOSED WATER SUPPLY SCHEME:

This scheme is prepared to supply treated water to 113 habitations of Haliyal taluka in Uttar Kannada District. Source for this scheme is Kali River; this source is sustainable as assured water for all twelve months is available as discussed in source sustainability. For preparation of base map and designs of all components of this scheme detailed survey of this scheme carried out along with Total station instruments after identifying locations of villages from maps available at Department of RDW&S department pertaining to this scheme, toposheets and Taluka maps. Locations of head work, break pressure tank, Water treatment plant, MBTs, IPS and alignment of pipelines placed on one platform using ZWCAD software and accordingly base map of this scheme prepared. The location of all components and villages identified on map have been physically verified on ground by deploying our Engineering and Surveying team, they had exhaustively collected all data like locations and levels with respect to MSL. The details survey of the all components of scheme like village reservoir, actual location of head work, WTP, MBTs and other components carried out using total station to prepare basemap of this scheme. While preparing the basemap and key map majour road crossings, National highway crossings, canal crossing,

railway crossing and coming across the pipeline alignment identified. After finalising the locations and levels of all components of scheme zoning of villages carried out satisfying the criteria mentioned in tender document for grouping of habitations. Highest elevations are identified after detailed survey from where pure water can be conveyed to all habitations by gravity and wherever water not reaching by gravity intermediate sumps proposed.

In this scheme it is proposed to lift raw water from Kali River near Dandeli town and raw water proposed to convey up to WTP by pumping. Water treatment plant of 16.20 MLD of RSF type proposed near Yadoga village and from there pure water proposed to convey upto ZBT-1, ZBT-2, ZBT-3, ZBT-4 and ZBT-5 through rising main by pumping from there pure water conveyed to all habitations by gravity except 06 habitations which are on higher elevation for which intermediate sumps are proposed from where pure water proposed to deliver by pumping. As per instruction and technical bid entire project are divided in 06 zone and separate gravity main network designed for each zone. Following are details of scheme.



3.1 SOURCE

SUSTAINABILITY: The Kali River has its origin near the village of Kushavali of Joida Taluka, 15°14'56" N 074°17'58" E, in the Western Ghats and flows eastwards into the Supa Dam Reservoir where it is joined by the Pandri River from the left (north). The Kali exits at Supa Dam near. Kurandi village then flows east towards Dandeli. Passing south of Dandeli, the Kali River flows southeast into the Bommanalli Reservoir, Supa Dam is located in Joida Taluk. it was built across the River Kali by Karnataka Power Corporation Limited. This dam has a power house at the foot of this dam with two electric generators. They are of 50 megawatts each. The dams has live storage capacity of 145 tmc and a catchment area of 1,057 Sq.Kms. Water being release continuously for power generation as seen from the flow data collected from KPC department for last 25 years. Every year this dam filled to its full capacity and water released for power generation in river throughout year. Hence this source is most sustainable for the meager requirement of this scheme which is 0.208 TMC in a year

As per record available from KPC department minimum release of water in kali river from supa dam is 0.52 MCUM (18.34 Mcft) in 2014 August and monthly requirement of this scheme is 0.017 Mcft which is very meager and also there is standing pool of water near jack well location for a length of about 3.00 Kmtr due to elevated hard rock natural barrier across this river near Dandeli town and due to this always water available for all twelve months at jack well location of this scheme. Hence this source is most sustainable for this scheme. This River runs through forest and there are few habitations on river side with small population and even there is no any industrialization upstream of jack well location which enables good quality water at lifting point earlier studies reveals that turbidity of river is about 11.32 NTU and also we conducted water sample studies at jack well location in month of February and turbidity is less than 1 NTU. It is also planned to conduct turbidity test during rainy season for further study and any modification in raw water recycling plant. Following is the raw water sample test report submitted by RDW&S Division Belagavi.

3.2 Head work location: Location of head work selected near Dandeli town upstream of Dandeli town near Haliya town water supply jack well, where uncontaminated surface water is available. Land required for construction of jack well is government land and already consent from Haliyal town Panchayat accorded and recommended to District Commissioner for transferring of said land and permission awaited and may cleared by 20th of March. As per layout of head work location land required for Jack well is 20.00x17.00 mtr and 15.00x20.00 mtr for staff quarter and DG set room. Geographical position of head is 15°14'10.94"N 74°36'46.85"E and lowest bed level at river is 440.58 M above MSL. Highest flood level of Kali River at head work location is 447.725 M above MSL.

4. Components of the Project

4.1 Intake well:

RCC intake well 4.00 mtr dia mtr size and 5.60 mtr deep with CI grating of size 2.50 x 1.50 mtr size provided at river Bed. Lowest river bed level where intake well proposed is 440.580 and minimum water level available at river near intake well is 443.636 M above MSL.

4.2 Jack well

RCC jack well of 8.00 mtr with RCC pump house of size 13.00 x 8.00. mtr provided on left bank of Kali river. Total depth of jack well is 15.30 mtr whereas depth of excavation below GL is 12.42 mtr. Height of pump house above jack well is 8.00 mtr. Provision for moving crane of 10 tone capacity is made to enable the easy movement of pumps during repairs and maintenance.

4.3 Connecting pipe: RCC NP4 connecting pipe line of 600 mm dia and 40.00 mtr length is proposed. Discharge through connecting pipe is 0.4078 Cum /Sec which is two times the designed discharge. Velocity through pipe is 1.44 mtr /sec and slope fall from invert at intake well to invert of connecting pipe at jack well is 0.40 mtr.

4.4 Raw water pumping machinery:

As per economical section analysis it is proposed to install vertical turbine Pumping machinery (2 working+ 1 stand by) over jack well to lift raw water to WTP near Yadoga village. Duty condition of pump is 285.00 HP having discharge 89.435 LPS against head of 183.00 mtr.

4.5 Raw water rising main :

It is proposed to lay raw water rising main from jack well to WTP to lift raw water to WTP. As per economical section and water hammer analyses it is proposed to lay raw water rising of 457.00 mm dia MS FE 410 ERW 4.50 mm thick for 18500.00 mtr length. Velocity in pipe line for considering flow with ultimate population is 1.30 mtr /sec whereas for intermediate population is 1.14 mtr /sec. Total working head including all losses and static head is 202.00 mtr and maximum head including water hammer is 241.06 mtr. Provisions of pressure reducing valves, air valves, sluice valves, check valves and scour valves made also though pipeline thickness itself sufficient to cater 100% water hammer head provision of pilot operated spring loaded membrane valves proposed for catering negative pressure as well as positive pressure. Also air cushion valves provided at ridges for air release as well as air insertion to cater any negative pressures.

4.6 Water Treatment Plant :

It is proposed to construct WTP of 16.20 MLD with Aerator, Raw water flow channel, clariflocculator, rapid Sand Filters, recycling plant and Pure water sump. Location of WTP is near Yadoga village location where good strata and sloping ground is available. As per layout 2.50 Acres of land required and accordingly private land 2.50 Acrs purchased near Yadoga village. The location of WTP is Location 15°19'42.00"N 74°44'5.00"E E Near Yadoga Cross and average GL 529.486 M above MSL. This land easily accessible from main road . Following are the components of WTP.

4.6.1 Aerator : It is proposed to construct RCC Cascade Type aerator of 24.20 Sqm with 05 cascade of size 0.30m rise and 0.45 m thread with bottom cascade of 5.55 mtr dia. the collecting channel of 1.00 m width and 1.20 mtr depth including all CI fittings and accessories with all lead and lift.

4.6.2 Flash mixer: - It is proposed to construct RCC Flash mixer of 1.50 mtr dia and 4.50 mtr depth. Provision of Stainless-steel paddle 8 nos of size 0.15x0.15 mtr is made. For rotation of paddles at 120 RPM planetary gear box and driving motor proposed to install over flash mixer structure supported with girder of ISMB-10.

4.6.3 Flow channel: It is proposed to construct of RCC flow channel from Aerator to Flash mixer of size 1.00 mtr width and 0.95 mtr depth and length of Flow channel is 7.50 mtr including fixing of V-notch for measurement of flow etc. complete as per specifications.

4.6.4 Clarifloculator: It is proposed to construct 2 no's of RCC Clarifloculator with floculator of size 9.80 mtr and clarifier of size 21.90 mtr. dia. Height of clarifloculator is 4.10 mtr. Size of flocculation paddles 16 nos. of size 1.50x 0.40 is proposed.

4.6.5 Rapid sand filter: It is proposed to Construct Rapid sand filter for filtration rate of 5500 lit./sqm/hour. 8 beds of twin filter beds each measuring 3.60 x 4.70 mtr. The height of rapid sand filter is 3.90 mtr. With free board of 0.50 mtr.

4.6.6 Pure Water Sump: As per tender conditions it is proposed to construct pure water sump for 1.00 hr detention period. Capacity of pure water sump is 7.75 Lakhs having size 25.00x8.60mtr. Water depth in sump of 3.50 mtr considered having free board of 0.50 mtr. Three compartment each measuring 8.60x8.60x3.50 mtr proposed.

4.6.7 Pure Water Pumphouse & Panel room: It is proposed to construct pure water pump house to install pure water pumping machinery, starters and panel boxes as per pumping machinery arrangement drawing it is proposed to construct RCC framed analysis pump house of 25.80x8.00x6.00 mtr. Provision of pump loading room and panel room of 5.00 x 8.00 and 12.00 x 8.00 mtr provided respectively. For removing and installation of pumping machineries during maintenance electrically operated gantry girder of 10 tone capacity provided at pump house.

4.6.8 Recycling of Back wash: It is proposed to construct installed recycling of back wash water plant consisting of Back wash collection tank, Sludge collection tank, Dissolved air floatation unit, Rapid plate settlers, Centrifuge and chemical dosing unit of 50000 LPH capacity.

4.6.9 Wash water tank : For Back washing to RSF at rate of 45 cum/sqm/Hr for 8 min washing period 2.00 lakhs of Elevated storage tank on RSF Bed proposed to construct having head of 8.00 mtr above under drainage system.

4.6.10 Disinfection Unit : For disinfection of water chlorine dosing unit of vaccume type chlorine gas unit of 2.50 Kg/Hr capacity provided to dose chlorine at rate of 3 PPM.

4.7 Pure water rising main :

It is proposed to lay Pure water rising main from WTP to 05 ZBTs to lift pure water to ZBTs and from there to all habitation by gravity. As per economical section and water hammer analyses it is proposed to lay Pure water rising main of various diameters as given in table below. Provisions of pressure reducing valves, air valves, sluice valves, check valves and scour valves made also though pipeline thickness itself sufficient to cater 100% water hammer head provision of pilot operated spring loaded membrane valves proposed for catering negative pressure as well as positive pressure. Also air cushion valves provided at ridges for air release as well as air insertion to cater any negative pressures. Following are details of pure water rising mains.

4.7.1 WTP to ZBT-1 : 273.00 mm dia MS pipe ERW 410 3.00 mm thick for 6000.00 mtr length. Velocity in pipe line for ultimate population and Intermediate population is 1.16 mtr/sec and 1.01 mtr/sec respectively. Working head including all frictional losses and static head is 135.00 mtr and maximum head including water hammer is 215.00 mtr.

4.7.2 WTP to Junction B : 273.00 mm dia MS pipe ERW 410 3.60 mm thick for 6450.00 mtr length. Velocity in pipe line for ultimate population and Intermediate population is 1.40 mtr/sec and 1.23 mtr/sec respectively. Working head including all frictional losses and static head is 232.00 mtr and maximum head including water hammer is 242.00 mtr.

4.7.3 Junction B to ZBT-2 : 219.00 mm dia MS pipe ERW 410 3.60 mm thick for 390.00 mtr length. Velocity in pipe line for ultimate population and Intermediate population is 0.86 mtr/sec and 0.75 mtr/sec respectively. Working head including all frictional losses and static head is 47.00 mtr and maximum head including water hammer is 137.00 mtr.

4.7.4 Junction B to ZBT-3 : 219.00 mm dia MS pipe ERW 410 3.00 mm thick for 7560.00 mtr length. Velocity in pipe line for ultimate population and Intermediate population is 1.33 mtr/sec and 1.17 mtr/sec respectively. Working head including all frictional losses and static head is 131.00 mtr and maximum head including water hammer is 236.00 mtr.

4.7.5 WTP to Junction D : 219.00 mm dia MS pipe ERW 410 4.00 mm thick for 8000.00 mtr length. Velocity in pipe line for ultimate population and Intermediate population is 1.44 mtr/sec and 1.24 mtr/sec respectively. Working head including all frictional losses and static head is 176.00 mtr and maximum head including water hammer is 240.00 mtr.

4.7.6 Junction D to ZBT-4 : 150 mm dia DI pipe K-9 for 200.00 mtr length. Velocity in pipe line for ultimate population and Intermediate population is 0.86 mtr/sec and 0.75 mtr/sec respectively. Working

head including all frictional losses and static head is 28.00 mtr and maximum head including water hammer is 143.00 mtr.

4.7.7 Junction D to ZBT-5 : 219.00 mm dia MS pipe ERW 410 4.00 mm thick for 6300.00 mtr length. Velocity in pipe line for ultimate population and Intermediate population is 0.92 mtr/sec and 0.79 mtr/sec respectively. Working head including all frictional losses and static head is 81.00 mtr and maximum head including water hammer is 163.00 mtr.

4.7.8 ISS-1 to M. Gouliwad & Magawad Jn -A : 140 mm dia HDPE PE-80 PN 12.50 for 4200.00 mtr length. Velocity in pipe line for ultimate population is 0.73 mtr/sec. Working head including all frictional losses and static head is 107.00 mtr and maximum head including water hammer is 93.00 mtr.

4.7.9 Junction C Jn to M Gawaliwad : 75mm dia HDPE PE-80 PN 10.00 for 2190.00 mtr length. Velocity in pipe line for ultimate population is 0.51 mtr/sec. Working head including all frictional losses and static head is 59.00 mtr and maximum head including water hammer is 58.00 mtr.

4.7.10 Junction C Jn to Magawad : 90 mm dia HDPE PE-80 PN 10.00 for 1550.00 mtr length. Velocity in pipe line for ultimate population is 1.24 mtr/sec. Working head including all frictional losses and static head is 73.00 mtr and maximum head including water hammer is 61.00 mtr.

4.7.11 ISS-2 to Gadiyal & Kumbakanhatti : 110 mm dia HDPE PE-80 PN 10.00 for 2480.00 mtr length. Velocity in pipe line for ultimate population is 0.94 mtr/sec. Working head including all frictional losses and static head is 81.00 mtr and maximum head including water hammer is 83.00 mtr.

4.7.12 ISS-3 to Shivapur & Guledkoppa village Jn -C : 140 mm dia HDPE PE-80 PN 12.50 for 1980.00 mtr length. Velocity in pipe line for ultimate population is 1.01 mtr/sec. Working head including all frictional losses and static head is 92.00 mtr and maximum head including water hammer is 98.00 mtr.

4.7.13 Junction C Jn to Guledkoppa : 75 mm dia HDPE PE-80 PN 10.00 for 3120.00 mtr length. Velocity in pipe line for ultimate population is 0.43 mtr/sec. Working head including all frictional losses and static head is 71.00 mtr and maximum head including water hammer is 67.00 mtr.

4.7.14 Junction C Jn to Shivapur : 140 mm dia HDPE PE-80 PN 10.00 for 250.00 mtr length. Velocity in pipe line for ultimate population is 0.89 mtr/sec. Working head including all frictional losses and static head is 68.00 mtr and maximum head including water hammer is 94.00 mtr.

4.8 Pure water intermediate sump : As per zoning requirement wherever residual head criteria not meeting in hydraulic analysis and to supply treated water to villages on higher elevation 03 nos of ISS proposed. Following are the details of intermediate pumping stations.

4.8.1 ISS -1 near M Gavaliwad village : M Gavaliwad and Magawad village in Zone II is on higher elevation and residual head criteria not meeting as per hydraulic calculation of gravity main analysis.

Hence it is proposed to construct IPS near M Gavaliwad village of one day capacity. RCC sump pump cum pump house of 1.25 Lakhs capacity having 6.60 mtr dia and 3.50 mtr depth is proposed with RCC pump house above sump of size 4.00x4.00 mtr. Land required for constriction IPS-1 is government land.

4.8.2 ISS -2 near Gadiyal village : M Gadiyal & Kumbakanatti villages in Zone III is on higher elevation and residual head criteria not meeting as per hydraulic calculation of gravity main analysis. Hence it is proposed to construct IPS near Gadiyal village of one day capacity. RCC sump pump cum pump house of 1.25 Lakhs capacity having 6.80 mtr dia and 3.50 mtr depth is proposed with RCC pump house above sump of size 4.00x4.00 mtr. Land required for constriction ISS-2 is government land.

4.8.3 ISS -3 near Shivapur village : Shivapur & Guledkoppa villages in Zone IV is on higher elevation and residual head criteria not meeting as per hydraulic calculation of gravity main analysis. Hence it is proposed to construct IPS near Shivapur village of one day capacity. RCC sump pump cum pump house of 2.25 Lakhs capacity having 9.00 mtr dia and 3.50 mtr depth is proposed with RCC pump house above sump of size 4.00x4.00 mtr. Land required for constriction ISS-3 is government land.

4.9 Pure water pumping machinery:

As per frictional loss analysis it is proposed to install Centrifugal split casing Pumping machinery (2 working+ 1 stand by) at Pure water sump well to lift pure water to ZBTs of 05 nos at various location. Provision of delivery pipe, suitable capacity soft starters and panel box, check valves isolation valves, mechanical joints are provided. Following are details of pumping machineries.

4.9.1 WTP to ZBT-1 : It is proposed to install centrifugal split casing pumping machinery of 75.00 HP (2W+1SB) having discharge 27.95 LPS and head 126.00 mtr.

4.9.2 WTP to ZBT-2 & ZBT-3 : It is proposed to install centrifugal split casing pumping machinery of 145.00 HP (2W+1SB) having discharge 34.00 LPS and head 201.00 mtr.

4.9.3 WTP to ZBT-4 & ZBT-5 : It is proposed to install centrifugal split casing pumping machinery of 145.00 HP (2W+1SB) having discharge 34.00 LPS and head 201.00 mtr.

4.9.4 WTP to ZBT-5 & ZBT-6 : It is proposed to install centrifugal split casing pumping machinery of 70.00 HP (2W+1SB) having discharge 21.93 LPS and head 151.00 mtr.

4.9.5 ISS -1 to M Gavaliwad & Magawad village : It is proposed to install submersible pumping machinery of 23.00 HP (1W+1SB) having discharge 6.58 LPS and head 107.00 mtr.

4.9.6 ISS -2 to Gadiyal & Kumbakanatti village: It is proposed to install submersible pumping machinery of 17.00 HP (1W+1SB) having discharge 5.801 LPS and head 81.00 mtr.

4.9.7 ISS -3 to Shivapur & Guledkoppa village: It is proposed to install submersible pumping machinery of 29.00 HP (1W+1SB) having discharge 10.13 LPS and head 98.00 mtr.

4.10 Zonal Balancing Tank: - To supply pure water to village ELSR,s by zoning of villages carried out satisfying the criteria mentioned in tender document for grouping of zones. Highest elevations are identified in each zone and ZBRs located from where pure water can be conveyed to all habitations by gravity. As per topography and tender document criteria 113 villages to be covered are divided is 08 zones Each zone having 15 to 20 habitations and accordingly at higher elevation in that zones balancing tanks proposed. Balancing tanks for capacity of 02 hrs detention period designed and accordingly following are the details of ZBTs. Compound wall to each ZBT proposed for protection purpose.

4.10.1 ZBT- 1 : It is proposed to construct ZBT-1 5.00 lakh capacity 15.00 mtr staging near Pala village. Ground level at ZBT-1 is 591.55 which is highest elevation in Zone –I and otlet let level required to supply treated water to all habitation in Zone –I and zone –II is 609.550. Land required for ZBT-1 is private land.

4.10.2 ZBT- 2 : It is proposed to construct ZBT-2 2.50 lakh capacity 25.00 mtr staging near Chatranal village. Ground level at ZBT-1 is 574.380 which is highest elevation in Zone –III and outlet level required to supply treated water to all habitation in Zone –III is 600.380. Land required for ZBT-2 is Government land.

4.10.3 ZBT- 3 : It is proposed to construct ZBT-3 3.50 lakh capacity 6.00 mtr staging or GLSR near Mundawad village. Ground level at ZBT-1 is 596.706 further highest elevation available up to peak of hillock but not reachable due to thick forest. Outlet level required to supply treated water to all habitation in Zone –IV & Zone IV-A is 602.706. Land required for ZBT-3 is forest land.

4.10.4 ZBT- 4 : It is proposed to construct ZBT-4 1.50 lakh capacity 18.00 mtr staging near Siddapur village.

Ground level at ZBT-4 is 551.210 which is highest elevation in Zone –V and outlet level required to supply treated water to all habitation in Zone –III is 569.210. Land required for ZBT-4 is Government land.

4.10.5 ZBT- 5 : It is proposed to construct ZBT-5 2.50 lakh capacity 21.00 mtr staging near Bhagawat village. Ground level at ZBT-4 is 569.563 which is highest elevation in Zone –VI and outlet level required to supply treated water to all habitation in Zone –VI & VI A is 593.263. Land required for ZBT-5 is forest land.

VILLAGE WISE LIST OF EXISTING AND PROPOSED STORAGE RESERVIORS

Sl. No.	Name of the Village	Population as per 2011 census	Water Demand in ltr/Day	Existing OHT Details	Existing Cistern Details	Existing GLSR Details	Total Existing Water Storage Capacity	Req. Qty	Requirment of New Tanks		Remark
			2047						Nos.	Capacity	
1	Teragaon	5234	713745	2 Nos ELSR = 1.0 Lakh and 2 no of 0.50 Lakh	24.00	1x0.50	350000.00	-36860.00	-	-	
2	Arlawad	2148	292995	1 Nos ELSR = 1.0 Lakh and 1 no of 0.50 Lakh	16.00		150000.00	-21480.00	-	-	
3	Satnalli	1253	171020	1 Nos ELSR = 0.50 Lakh	16.00	-	50000.00	25012.50	1.00	25000.00	
4	Hunswad	1849	252195	1 Nos ELSR = 0.50 Lakh 1 no of 0.20 Lakh	16.00	-	70000.00	40627.50	1.00	50000.00	
5	Mundaki	5	850	-	1.00	-	2500.00	-2160.00	-	-	

6	Madnalli	1141	155720	2 Nos ELSR = 0.50 Lakh	-	-	100000.00	-31702.50	-	-	
7	Antrolli	475	64855	1 Nos ELSR = 0.50 Lakh	-	-	50000.00	-21567.50	-	-	
8	Homanalli	407	55760	1 Nos ELSR = 0.50 Lakh	6.00	-	50000.00	-25562.50	-	-	
9	Dusagi	1535	209440	1 Nos ELSR = 0.50 Lakh	-	-	50000.00	41885.00	1.00	50000.00	
10	Muttalmuri	1411	192610	2 Nos ELSR = 0.50 Lakh	-	-	100000.00	-15510.00	-	-	
11	Havagi	2170	296055	1 Nos ELSR = 1.0 Lakh and 1 no of 0.50 Lakh	-	1x 0.25	175000.00	-45120.00	-	-	
12	Timmapur	415	56695	-	7.00	-	0.00	24862.50	1.00	25000.00	
13	Magawad	573	78200	-	5.00	-	0.00	34297.50	1.00	35000.00	
14	Kerwad(H)	1362	186065	1 Nos ELSR = 0.50 Lakh	7.00	-	50000.00	31600.00	1.00	35000.00	
15	Magawad Gouliwad	163	22440	-	6.00	-	0.00	9817.50	1.00	10000.00	
16	Mangal wada	3455	471240	2 Nos ELSR = 0.50 Lakh	6.00	1 NW	100000.00	106720.00	**1.00**	**100000.00**	
17	Pala	701	95880	1 Nos ELSR = 0.50 Lakh	4.00	-	50000.00	-7967.50	-	-	
18	Kalasapur	182	25075	-	3.00	-	0.00	10965.00	1.00	10000.00	
19	Malawad	116	16065	-	4.00	-	0.00	7012.50	1.00	7500.00	
20	Yadoga	2142	292315	2 Nos ELSR = 0.50 Lakh	-	-	100000.00	28222.50	1.00	30000.00	
21	Bidrolli	856	116875	1 Nos ELSR = 0.25 Lakh	-	-	25000.00	26255.00	1.00	25000.00	
22	Modalgera	453	61965	-	5.00	-	0.00	27157.50	1.00	30000.00	

23	Ramapur	563	77010	-	3.00	-	0.00	33787.50	1.00	35000.00	
24	Handali	797	108800	1 Nos ELSR = 0.50 Lakh	-	1x.75 NW	50000.00	-2272.50	-	-	
25	Satmani	594	81090	-	5.00 NW	-	0.00	35572.50	1.00	35000.00	
26	Jawalli	560	76500	1 Nos ELSR = 0.50 Lakh	-	-	50000.00	-16467.50	-	-	
27	Kesrolli	993	135660	1 Nos ELSR = 0.50 Lakh	-	-	50000.00	9500.00	-	-	
28	Agasalakatta	273	37400	1 Nos ELSR = 0.25 Lakh	-	-	25000.00	-8595.00	-	-	
29	Kurigadda	279	38335	-	3.00	-	0.00	16787.50	1.00	20000.00	
30	Garadolli	662	90525	1 Nos ELSR = 0.50 Lakh	3.00	-	50000.00	-10305.00	-	-	
31	Gadagera	169	23290	-	4.00	-	0.00	10200.00	1.00	10000.00	
32	Kyatanagera	149	20485	1 Nos ELSR = 0.50 Lakh	3.00	-	50000.00	-41032.50	-	-	
33	Domagera	208	28645	-	4.00	-	0.00	12537.50	1.00	15000.00	
34	Ajagaon	412	56440	1 Nos ELSR = 0.25 Lakh	-	-	25000.00	-265.00	-	-	
35	Niralaga	876	119680	1 Nos ELSR = 0.50 Lakh	-	-	50000.00	2487.50	-	-	
36	Siddapur	69	9605	-	3.00	-	0.00	4207.50	1.00	5000.00	
37	Karalkatta	799	109055	2 Nos ELSR = 0.5 Lakh	-	1x 0.25	100000.00	-52187.50	-	-	
38	Halasi/Kesaro lli Gram	42	5950	-	2.00	-	5000.00	-2407.50	-	-	
39	Kawalwad	3195	435880	1 Nos ELSR = 0.50 Lakh	-	-	50000.00	141207.5 0	**1.00**	**150000.0 0**	
40	Hampinahalli	1006	137360	1 Nos ELSR = 0.75 Lakh + 1 Nos of 0.50	-	-	125000.00	-64735.00	-	-	

41	Basavalli	694	94860	1 No ELSR = 0.50 Lakh	-	-	50000.00	-8392.50	-	-	
42	Doddakoppa	719	98260	-	6.00	-	0.00	43095.00	1.00	50000.00	
43	Jataga	687	93925	-	5.00	-	0.00	41182.50	1.00	50000.00	
44	Nandigadde	1148	156740	1 No ELSR = 0.5 Lakh	-	2x 0.50	150000.00	-81235.00	-	-	
45	Sankankoppa	1472	200855	2 Nos ELSR = 0.5 Lakh	-	-	100000.00	-11897.50	-	-	
46	Guledkoppa	165	22610	-	4.00	-	0.00	9902.50	1.00	10000.00	
47	Belavatagi	3267	445655	2 Nos ELSR = 0.5 Lakh	13.00	1x 1.00	200000.00	-4500.00	-	-	
48	Janaga	1426	194565	1 No ELSR = 0.5 Lakh	-	1x 1.00	150000.00	-64660.00	-	-	
49	K.K.Halli	1290	176120	1 No ELSR = 0.5 Lakh	-	-	50000.00	27265.00	1.00	25000.00	
50	Mugadkoppa	273	37400	-	5.00	-	0.00	16405.00	1.00	20000.00	
51	Murkawad	2606	355555	2 Nos ELSR = 0.5 Lakh	-	1x 0.75	175000.00	-19025.00	-	-	
52	Nagashettikoppa	754	103105	-	4.00	-	0.00	45220.00	1.00	50000.00	
53	Shivapur	1197	163455	-	12.00	-	0.00	71697.50	1.00	75000.00	
54	Malawadi	625	85340	1 No ELSR = 0.5 Lakh	-	-	50000.00	-12557.50	-	-	
55	Chibbalgeri	862	117725	1 No ELSR = 0.5 Lakh	-	-	50000.00	1637.50	-	-	
56	Khamdolli	838	114410	1 No ELSR = 0.5 Lakh	-	-	50000.00	192.50	-	-	
57	Golehalli	582	79560	1 No ELSR = 0.25 Lakh	3.00	-	25000.00	9892.50	-	-	
58	Teganahalli	845	115345	1 No ELSR = 0.5 Lakh	-	-	50000.00	575.00	-	-	

59	Allolli	369	50405	-	3.00	-	0.00	22100.00	1.00	25000.00	
60	Jogankoppa	858	117045	1 No ELSR = 0.5 Lakh	1.00	-	50000.00	1340.00	-	-	
61	Ammankoppa	1011	138040	1 No ELSR = 0.5 Lakh	3.00	-	50000.00	10562.50	-	-	
62	Kumbakanatti	346	47345	-	4.00	-	0.00	20740.00	-	*****	
63	Hosur	491	67150		5.00	-	0.00	29452.50	1.00	30000.00	
64	Tatvangi	1594	217600	2 No ELSR = 0.5 Lakh	-	-	100000.00	-4545.00	-	-	
65	Buzur Kanchanahalli	3196	435965	1 No ELSR = 1 Lakh	-	-	100000.00	91250.00	**1.00**	**100000.00**	
66	Banasgeri	955	130305	-	8.00	-	0.00	57162.50	1.00	**60000.00**	
67	Chatranal	246	33745	-	3.00 NW	-	0.00	14790.00	1.00	15000.00	
68	Hosahadagali	420	57460	-	7.00	-	0.00	25202.50	1.00	25000.00	
69	Guttibail	38	5355	-	4.00	500.00	0.00	2337.50	1.00	5000.00	
70	Mundwad	1551	211565	1 No ELSR = 0.5 Lakh	-	-	50000.00	42820.00	1.00	50000.00	
71	Murkwad Navagram	500	68340	-	3.00	-	0.00	29962.50	1.00	30000.00	
72	Bantargali	195	26775	-	5.00	-	0.00	11730.00	1.00	10000.00	
73	Jataga Gouliwad	315	43180	1 No ELSR = 0.25 Lakh	-	-	25000.00	-6087.50	-	-	
74	Hosavatnal	1250	170595	1 No ELSR = 0.25 Lakh	-	-	25000.00	49842.50	1.00	50000.00	
75	Pradhanhatti	510	69785	-	4.00	-	0.00	30600.00	1.00	30000.00	
76	Adkinahalla	290	39780	-	4.00	-	0.00	17425.00	1.00	20000.00	

77	Kalginakoppa	1978	269875	1 No ELSR = 0.5 Lakh	-	1x 0.25	75000.00	43405.00	1.00	50000.00	
78	Tippingeri	347	47600	-	4.00	-	0.00	20867.50	1.00	20000.00	
79	Gudmurgi	1069	145945	-	4.00	-	0.00	64005.00	1.00	20000.00	
80	Sambrani	1169	159460	1 No ELSR = 0.5 Lakh	-	-	50000.00	19955.00	1.00	20000.00	
81	Gundolli	2001	273020	1 No ELSR = 0.5 Lakh + 1 No ELSR = 1 Lakh	-	-	150000.00	-30235.00	-	-	
82	Shenkankatte	525	71740	-	5.00	-	0.00	31450.00	1.00	30000.00	
83	Bukkankoppa	525	71740	-	5.00	-	0.00	31450.00	1.00	30000.00	
84	Ajminhal	623	85170	-	5.00	-	0.00	37357.50	1.00	35000.00	
85	Kamtikoppa	250	34255	-	8.00	-	0.00	15002.50	1.00	15000.00	
86	Pandraval	491	67150	1 No ELSR = 0.25 Lakh	-	-	25000.00	4452.50	-	-	
87	AdkeHosur	636	86955	1 No ELSR = 0.5 Lakh	-	-	50000.00	-11877.50	-	-	
88	JatgeHosur	96	13345	-	4.00	-	0.00	5822.50	1.00	5000.00	
89	Bhagavati	1628	222190	1 No ELSR = 1.00 Lakh + 1 No = 0.5 Lakh	-	1x 0.25	175000.00	-77547.50	-	-	
90	Tattigera Gouliwada	300	41140	-	2.00	-	0.00	18020.00	1.00	20000.00	
91	Tattigeri	1495	204000	1 No ELSR = 0.5 Lakh	-	-	50000.00	39505.00	1.00	40000.00	
92	Nilwani	289	39525	-	8.00	-	0.00	17340.00	1.00	20000.00	
93	Ghadiyal	432	59160	-	3.00	-	0.00	25925.00	**1.00**	**50000.00**	

94	Aalur	599	81855	1 No ELSR = 0.25 Lakh	-	-	25000.00	10912.50			
95	Kerwada	1385	189040	1 No ELSR = 0.25 Lakh	-	-	25000.00	57917.50	1.00	60000.00	
96	Halmaddi	389	53210	1 No ELSR = 0.5 Lakh	-	-	50000.00	-26667.50	-	-	
97	Tatgera	208	28645	-	3.00	-	0.00	12537.50	-	-	
98	Tatgera gouliwada	62	8670	1 No ELSR = 0.5 Lakh	2.00	-	50000.00	-46217.50	-	-	
99	Chotakanshirda	97	13430	-	2.00	-	0.00	5865.00	1.00	7500.00	
100	Ajminal Tanda	483	66130	-	5.00	-	0.00	28985.00	1.00	30000.00	
101	Pura	116	16065	-	4.00	-	0.00	7012.50	1.00	7500.00	
102	Kumbarkoppa	182	25075	-	5.00	-	0.00	10965.00	1.00	10000.00	
103	Adikehosuru	325	44625	-	4.00	-	0.00	19550.00	1.00	20000.00	
104	Bhagavti Gouliwada	842	115005	1 No ELSR = 0.25 Lakh	-	-	25000.00	25447.50	1.00	25000.00	
105	Addigera	275	37740	-	4.00	-	0.00	16532.50	1.00	20000.00	
106	Bhimanalli	280	38420	-	6.00	-	0.00	16830.00	1.00	20000.00	
107	Narnalli	188	25840	-	5.00	-	0.00	11305.00	1.00	15000.00	
108	Balshettikoppa	478	65450	1 No ELSR = 0.25 Lakh	3.00	-	25000.00	3687.50	-	-	
109	Chandrasuryawada		44115		1.00	-	0.00	19337.50	1.00	20000.00	
110	Donkanal	108	14960	-	5.00	-	0.00	6545.00	1.00	7500.00	

111	Raypattana	340	46580	-	4.00	-	0.00	20400.00	1.00	40000.00	
112	Rayapattana Gouliwada		44115	-	2.00	-	0.00	19337.50			
113	Bommnalli	466	63750	1 No ELSR = 0.25 Lakh	2.00	-	25000.00	2965.00		-	
Total		**93954**	**12920 680**								

4.11 Pure Gravity Mains: - As per tender criteria for number of villages in each zone about 15 to 20 and either population about 20000 and topography of project zoning and grouping of 113 villages carried out and accordingly hydraulic network analysis for each zone worked out. Appropriate material and class of pipe designed each node wise and tabulated (details of network analysis attached along with hydraulic designs. Provisions for sluice valves, scour valves, pressure reducing valves and air valves made in estimate as per CPHEEO NORMS and as per tender criteria. Following are details of gravity main pipe line.

Zone-I

No. of villages: 14.

Project Population 2047 : 24297

Minimum residual head : 4.627 mtr

Maximum residual head : 52.584 mtr

Sl. No	Dia	Class of Pipe	Pipe material	Length
1	250	K -7	DI	1350.00
2	200	K -7	DI	2680.00
3	200	PE-100 PN 10	HDPE	1140.00
4	180	PE-100 PN 10	HDPE	3230.00
5	160	PE-100 PN 10	HDPE	2040.00
6	140	PE-100 PN 10	HDPE	510.00
7	125	PE-100 PN 10	HDPE	50.00
8	110	PE-100 PN 10	HDPE	4550.00

9	90	PE-100 PN 10	HDPE	1740.00
10	75	PE-100 PN 10	HDPE	3695.00
11	63	PE-100 PN 10	HDPE	5280.00
12	75	PE-100 PN 12.50	HDPE	2540.00
	Total			**28805.00**

Zone-II

No. of villages: 13.

Project Population 2047 : 26187

Minimum residual head : 4.206 mtr

Maximum residual head : 46.980 mtr

Sl. No	**Dia**	**Class of Pipe**	**Pipe material**	**Length**
1	250	K -7	DI	4790.00
2	200	K -7	DI	2810.00
3	200	PE-100 PN 10	HDPE	200.00
5	160	PE-100 PN 10	HDPE	1410.00
6	140	PE-100 PN 10	HDPE	1980.00
7	125	PE-100 PN 10	HDPE	1250.00
8	110	PE-100 PN 10	HDPE	3740.00
9	90	PE-100 PN 10	HDPE	760.00
10	75	PE-100 PN 10	HDPE	3220.00
11	63	PE-100 PN 10	HDPE	4985.00
	Total			**25145.00**

Zone-III

No. of villages: 19.

Project Population 2047 : 24057

Minimum residual head : 4.206 mtr

Maximum residual head : 46.980 mtr

Sl. No	Dia	Class of Pipe	Pipe material	Length
1	250	K -7	DI	100.00
2	200	K -7	DI	430.00
3	200	PE-100 PN 10	HDPE	2300.00
4	180	PE-100 PN 10	HDPE	2070.00
5	160	PE-100 PN 10	HDPE	630.00
6	140	PE-100 PN 10	HDPE	6590.00
7	110	PE-100 PN 10	HDPE	6420.00
8	90	PE-100 PN 10	HDPE	3970.00
9	75	PE-100 PN 10	HDPE	6900.00
10	63	PE-100 PN 10	HDPE	5140.00
	Total			**34550.00**

Zone-IV

No. of villages: 14.

Project Population 2047 : 19895

Minimum residual head : 4.720 mtr

Maximum residual head : 67.610 mtr

Sl. No	Dia	Class of Pipe	Pipe material	Length
1	250	K -7	DI	4440.00
2	200	PE-100 PN 10	HDPE	1240.00
3	180	PE-100 PN 10	HDPE	4020.00
4	140	PE-100 PN 10	HDPE	100.00
5	110	PE-100 PN 10	HDPE	4900.00
6	90	PE-100 PN 10	HDPE	3005.00
7	75	PE-100 PN 10	HDPE	100.00

8	63	PE-100 PN 10	HDPE	4070.00
	Total			**21875.00**

Zone-IV A

No. of villages: 14.

Project Population 2047 : 17440

Minimum residual head : 3.23 mtr

Maximum residual head : 67.01 mtr

Sl. No	**Dia**	**Class of Pipe**	**Pipe material**	**Length**
1	200	K-7	DI	8750.00
2	200	PE-100 PN 10	HDPE	330.00
3	110	PE-100 PN 10	HDPE	1170.00
4	90	PE-100 PN 10	HDPE	2260.00
5	75	PE-100 PN 10	HDPE	360.00
6	63	PE-100 PN 10	HDPE	740.00
7	200	PE-100 PN 12.50	HDPE	3220.00
8	160	PE-100 PN 12.50	HDPE	2780.00
9	75	PE-100 PN 12.50	HDPE	3595.00
10	63	PE-100 PN 12.50	HDPE	2630.00
	Total			**25835**

Zone-V

No. of villages: 21.

Project Population 2047 : 14425

Minimum residual head : 4.69 mtr

Maximum residual head : 51.21 mtr

Sl. No	Dia	Class of Pipe	Pipe material	Length
1	200	K -7	DI	100.00
2	200	PE-100 PN 10	HDPE	2190.00
3	180	PE-100 PN 10	HDPE	1085.00
4	160	PE-100 PN 10	HDPE	850.00
5	140	PE-100 PN 10	HDPE	8640.00
6	125	PE-100 PN 10	HDPE	1590.00
7	110	PE-100 PN 10	HDPE	11180.00
8	90	PE-100 PN 10	HDPE	245.00
9	75	PE-100 PN 10	HDPE	2370.00
10	63	PE-100 PN 10	HDPE	18580.00
11	110	PE-100 PN 12.50	HDPE	700.00
12	90	PE-100 PN 12.50	HDPE	550.00
13	63	PE-100 PN 12.50	HDPE	700.00
14	63	PE-100 PN 16.00	HDPE	700.00
	Total			**49480.00**

Zone-VI

No. of villages: 15.

Project Population 2047 : 17642

Minimum residual head : 3.502 mtr.

Maximum residual head : 44.416 mtr.

Sl. No	Dia	Class of Pipe	Pipe material	Length
1	200	K -7	DI	830.00
2	200	PE-100 PN 10	HDPE	3985.00
3	160	PE-100 PN 10	HDPE	2200.00
4	140	PE-100 PN 10	HDPE	1830.00
5	110	PE-100 PN 10	HDPE	10165.00
6	90	PE-100 PN 10	HDPE	2095.00
7	75	PE-100 PN 10	HDPE	1975.00
8	63	PE-100 PN 10	HDPE	9985.00
	Total			**32050.00**

Zone-VI A

No. of villages: 15.

Project Population 2047 : 17642

Minimum residual head : 3.502 mtr

Maximum residual head : 44.416 mtr

Sl. No	Dia	Class of Pipe	Pipe material	Length
1	180	PE-100 PN 10	HDPE	3700.00
2	110	PE-100 PN 10	HDPE	200.00
3	90	PE-100 PN 10	HDPE	240.00
4	75	PE-100 PN 10	HDPE	990.00
5	140	PE-100 PN 12.50	HDPE	4930.00
6	63	PE-100 PN 12.50	HDPE	8430.00
7	75	PE-100 PN 16.00	HDPE	3400.00
8	63	PE-100 PN 16.00	HDPE	8815.00
	Total			**30705.00**

Total length of gravity main

Sl No	Zones	Length of pipeline (m)	No of Villages Covered	Population (2047)
1	Zone-1	28805	14	24297
2	Zone-2	25145	13	26187
3	Zone-3	34550	19	24057
4	Zone-4	21875	10	19895
5	Zone-4A	25835	10	17440
6	Zone-5	49480	21	14425
7	Zone-6	32055	15	17642
8	Zone-6A	30705	10	7540
TOTAL QUANTITY		**248450.00**	**113**	**152008**

4.12 AUTOMATION AND MANAGEMENT SYSTEM

In traditional drinking water supply system is facing many problems related to filtration, pumping of water, distribution of water and testing of water. Conventional water supply department comprises three different sections for water supply. First is the pumping station, which does the sucking of water from water source. The second section is a filtration department in which raw water get treated as per norms and requires automation and logic controls to all components of WTP, also requires measurement of dosing of chemicals and final quality of treated water. Third section is the distribution section through which water is distributed to all ZBTs by pumping from proposed PWS and distributed to village ELSRs through gravity. This third sections requires measurement of water supplied at each village reservoirs and also bulk supply to all MBTs. This is mainly required to identify leakages in pipeline and unaccounted for water. Currently these three sections are working independently. The major problems in water supply system are leakage or wastage of water and the majority rural public is using unmeasured water supply, which results decrease in getting only part of area very good supply and remaining area without proper water supply. Automation and SCADA for 113 habitation of Haliyal taluka MVS includes required and necessary automation from the point of jackwell to the distribution of pure water up to Zonal balancing reservoirs to enable automated, Remote or Semi-Automated operations of jackwell, WTP, raw water Pumping stations, Pure water pumping stations, Intermediate Pumping stations and Zonal Balancing

Reservoirs to achieve maximum efficient supply of drinking water according to NORMS and designed quality and quantum of drinking water to each village. The automation and instrumentation is divided into following phases:

4.12.1 Jack well instrumentation and Automation

4.12.2 WTP instrumentation and automation

4.12.3 Instrumentation and automation of Pumping station at WTP

4.12.4 Instrumentation and automation at all ZBTs

4.12.5 Jack well Automation: Automation at jack well consists of PLC panel with operator console display, valve actuators, flow meters, pressure sensors and communication devices. It is expected that the jack well can be monitored and controlled from the WTP control station for its operations. Various parameters such as energy consumption, flow rate, pressure, temperatures, water depth in jack well and velocity in pipeline etc. shall be monitored and recorded continuously and the pumping machineries at jack well will be programmed to perform automated valve and pump operations.

4.12.6 WTP Automation and Pumping station: Water treatment plant automation shall include automation of Clarifiers, Filter beds, pumping station. Wherein operations of filter beds such as backwashing of beds, clarifier operations, automated sludge drain etc. are to be programmed to operate the plant as per designed logics as per the required capacity. WTP will also have Control station with Computer server hosting Scada software which will act as central station to monitor and control the entire scheme including the pumping station. All the parameters such as inlet and outlet flows, pressures, tank levels, quality parameters shall be recorded and tabulated to prepare daily report of the scheme. Pump house, similar to the jack well shall be entirely monitored and controlled from the control station and shall be programmed for automated operations. All the valves of WTP and Pump house shall be fitted with valve actuators.

4.12.7 Automation at ZBTs: ZBTs shall be fitted with a Remote Terminal unit consisting PLC, to operate monitor and operate valves at ZBTs as per designed flow. Tank levels, flow data, pressure shall be monitored real time from the control station 24x7. Remote terminal units shall perform programmed operations from WTP control station.

4.12.8 Automation at village reservoirs: Village storage reservoirs shall be fitted with AMR electromagnetic flow meter for recording daily quantum of water supply to each village. Wherever GSM coverage available arrangement made to transfer data to control station at WTP. Due to thick forest wherever GSM network not available manual data will be recorded and entered in control station and further tabulated to prepare daily report.

4.12.9 Remote monitoring and monitoring of Critical pressure points: Critical pressure points in the distribution system will be continuously monitored through pressure sensors fixed at critical points sending real time data to the computer server.

4.12.10 Extent of Scope of Work: The scope of work under this Turnkey Contract on Single Responsibility basis includes, but not limited to, designs and drawings, supply, installations of brand new PLC SCADA System including all equipment's, sensors, actuators, and installation of all mechanical, electrical, instrumentation equipment, testing of all the units of the system in sections and thereafter commissioning of the entire system, trial runs, supply of spares, tools and plants at the end of execution period plus five year defect liability period and subsequent Operation & Maintenance of the developed system and repair of defects.

4.12.11 Major Components of Work: The scope of this work covers the design and execution of works with an ultimate objective to automate Jack Well (Head works), Water Treatment Plant, intermediate pumping stations, ZBT level monitoring. The system should be designed in such a manner so as to operate the water treatment plant in auto/semi auto mode with minimal human intervention in normal course of operation.

4.12.12 Jack Well Instrumentation: Full Bore Electromagnetic Flow Meter with remote display for Raw Water line at jack well with all specials, hardware and allied civil work, including supplying, installing, testing, commissioning and laying of cables for RS 485 modbus communication, with PLC SCADA System. Electrical actuators for pump outlet vales with all accessories and fitment and necessary onsite fabrication, wiring and interfacing with operator console and manual override for each actuator. Multi-Function Meter with Modbus RS.485 communication system with all accessories and interfacing with main power panel. The energy data should be communicated to PLC SCADA System. Installation of protection relays for phase failure, phase reversal, phase imbalance, over voltage, under voltage, earth leakage etc, and the faults should be communicated to PLC SCADA system. Operator Console for Raw water Pump house with PLC and HMI with all power and communication wiring and interfacing with pump motor starters, communication system with PLC SCADA system for remote operation with manual override. Pressure sensors for VT pump outlets with cables and other accessories required to be connected to PLC SCADA system. Direct Satellite based telecommunication with minimum speed of 512 kbps at WTP with 99.9% uptime including indoor and outdoor unit installation commissioning with all necessary documentation and permissions from the service provider with operation and maintenance of the internet facility with minimum 1 static IP and 4 LAN connections for PLC SCADA System. This satellite telecommunication

system shall be powered from UPS. UPS for satellite-based communication system, PLC HMI Panel and energy meter, suitable for required backup Water Treatment Plant:

4.12.13 Raw Water Inlet Instrumentation : The Raw water inlet instrumentation and allied work included but not limited to full Bore Electromagnetic Flow Meter with remote display for Raw Water inlet line with all specials, hardware and allied civil work, including supplying, installing, testing, commissioning and laying of cables for RS 485 Modbus communication, with PLC SCADA System. Online Water Quality monitoring system for raw water including online turbidity meter, with local display of test results and RS 485 Modbus communication with PLC SCADA System, including all necessary arrangement for sample inlet and drain system for testing equipment's, installation, commissioning and onsite calibration of the equipment's. PLC control panel for raw water instrumentation, to communicate with inlet flow meter, turbidity meters, starter panels of clarifier, flash mixer, This PLC shall communicate with PLC at filter house and hence connected to SCADA system at master control room

4.12.14 Clariflocculator Instrumentation: Clariflocculator automation and allied work included but not limited to: Instrumentation panel with PLC for automation of scraper motor with manual override, including supplying, installation and commissioning. Integration of PLC panel with existing starter of the motor including all wiring and communication with PLC SCADA System for remote operation. Online Water Quality monitoring system for raw water including online turbidity meter, with local display of test results and RS 485 modbus communication with PLC SCADA System, including all necessary arrangement for sample inlet and drain system for testing equipment's, installation, commissioning and onsite calibration of the equipment.

4.12.15 Rapid Sand Filter Bed Automation: Automated Filter bed system and allied work included but not limited to Operator Console including PLC and HMI for automatic backwash arrangement for each filter beds with loss of head indicator, with manual override Electrical actuators for filter bed inlet, outlet and wash water outlet and drain vales of all filter beds with all accessories and fitment and necessary onsite fabrication, wiring and interfacing with operator console and manual override for each actuator. Wash Water Tank level monitoring with Ultrasonic Level Transmitter and Tank level control with pump automation of existing wash water pumps, including supply of control panel with all necessary wiring and PLC SCADA system communication for remote operation and manual override.

4.12.16 Pure Water Pump House/ intermediate pumping station Automation and Instrumentation: Operator Console for WTP Pump house with PLC with all power and communication wiring and interfacing with pump motor starters, communication system with PLC SCADA system for remote operation of pure water pumps with manual override. Multi-Function Meter with modbus RS 485 communication system

with all accessories and interfacing with main power panel. The energy data should be communicated to PLC SCADA System. Installation of protection relays for phase failure, phase reversal, phase imbalance, over voltage, under voltage, earth leakage etc, and the faults should be communicated to PLC SCADA system for wtp pump house and intermediate pumping stations. Electrical Actuators for pump outlet valves with manual override. Valves should operate remotely from SCADA system or locally from operator panel at pump house. Pressure sensor for pump outlet to monitor pressure on the outlet line. Ultrasonic Level Monitor with 4-20mA output for pure water sump level monitoring with local display and communication with PLC and SCADA system. Full Bore Electromagnetic Flow Meter with remote display for pump outlet lines with all specials, hardware and allied civil work, including supplying, installing, testing, commissioning and laying of cables for RS 485 modbus communication with PLC SCADA System. Automatic operation of pumps as per tank level and totalized outflow of pure water as per daily demand set by the operator. Pressure sensor with all accessories for communication with PLC system. Ultrasonic level sensor for sump level monitoring with all accessories to communicate with PLC SCADA system. Amperometry based online chlorine, pH analyser with local display, with all accessories and sample conditioning unit with analog / RS 485 communication for PLC SCADA communication of real time display of residual chlorine at WTP pump house. Portable battery-operated digital photometer (2 sets) for residual chlorine analysis at the field, near consumer taps, reservoirs on regular basis. The photometer should be supplied with the all consumables for testing during complete operation and maintenance period of 5 years from the date of commissioning.

4.12.17 Master Control Room Setup in WTP Premises: Master Control Room setup and its allied work includes but not limited to setting up of supervisory control room in WTP premises for monitoring the plant operation. The air-conditioned room shall be provided by the employer to accommodate computer hardware, instruments, UPS and furniture items. Required KVA true Online UPS with USB / LAN connectivity with backup for minimum 4 Hrs, with necessary wiring and protection fuses and other accessories. Provide, install, operate and maintain Computer and allied accessories with configuration as specified in the specifications of instrumentation with all licensed copies of operating software, antivirus software, other necessary software, laser printer with stationary for printing reports etc. SCADA Runtime with development software and application software design and development with licensed version as per tag requirement, screens and logic development, communication with PLC panels in the WTP. Database generation for water quality and quantity audit, automatic daily, weekly and monthly reports in soft and hard copy to be submitted to employer. Direct Satellite based telecommunication with minimum speed of 1 MBPS at WTP with 99.9% uptime including indoor and outdoor unit installation commissioning with all

necessary documentation and permissions from the service provider with operation and maintenance of the internet facility with minimum 1 static IP and 4 LAN connections for PLC SCADA System. This satellite telecommunication system shall be powered from UPS. Web Viewer for SCADA with log in ID and password protection for remote monitoring of SCADA from outside over internet. The control systems shall be designed for fully automatic operation of the process. However, in the event of failure of the automatic controls or by operator choice it shall be possible to revert to manual operation of each item of the WTP. The control systems shall be designed to recover fully to a normal operational state on restoration of power following a power failure without manual intervention. This requirement includes recovery from the L.T. failure as well as the control system power failure. Master Control Centre shall be interfaced with the PLC system of each functional unit on the water Transmission system, such as pumping stations, water treatment works, electricity supply system, etc.

4.12.18 Zonal Balancing Tank monitoring: All Zonal balancing tanks instrumentation setup for each reservoir and its allied work includes but not limited to full Bore Electromagnetic Flow Meter with remote display for reservoir inlet lines with all specials, hardware and allied civil work, including supplying, installing, testing, commissioning and laying of cables for RS 485 Modbus communication with PLC SCADA System. Level sensors shall be installed at each of the tank to communicate with Remote terminal unit allowing real time monitoring of tank levels. Remote terminal units (RTU) panels for each of the reservoir to gather real time readings from installed sensors and communicating same to the master control room. Flow and levels shall be monitored real time through mobile based application software as well as master control room.

EXECUTIVE ENGINEER
RURAL DRINKING WATER AND SANITATION DIVISION
KARWAR (U.K.)

Executive Engineer
RDWS & S Division,
Karwar.

POPULATION SHEET ZONE WISE

Sl. No.	Name of the Habitations	Projected Population	Water Demand in MLD
		2047	2047
	ZONE- IV (MBT-3)		
1	Kawalwad	5128	0.513
2	Hampinahalli	1616	0.162
3	Basavalli	1116	0.112
4	Doddakoppa	1156	0.116
5	Jataga	1105	0.111
6	Nandigadde	1844	0.184
7	Sankankoppa	2363	0.236
8	Janaga	2289	0.229
9	Bantargali	315	0.032
10	Jataga Gouliwad	508	0.051
11	Guledkoppa	266	0.027
12	Belavatagi	5243	0.524
13	K.K.Halli	2072	0.207
14	Mugadkoppa	440	0.044
15	Murkawad	4183	0.418
16	Shivapur	1923	0.192
17	Mundwad	2489	0.249
18	Murkwad Navagram	804	0.080
19	Hosavatnal	2007	0.201
20	Adkinahalla	468	0.047
	Zone-V (MBT-4)		
1	Kesrolli	1596	0.160
2	Agasalakatta	440	0.044
3	Kurigadda	451	0.045
4	Rayapattana Gouliwada	519	0.052
5	Raypattana	548	0.055
6	Garadolli	1065	0.107
7	Gadagera	274	0.027
8	Kyatanagera	241	0.024
9	Domagera	337	0.034
10	Ajagaon	664	0.066
11	Siddapur	113	0.011
12	Karalkatta	1283	0.128
13	Halasi	70	0.007
14	Tippingeri	560	0.056
15	Gudmurgi	1717	0.172
16	Kumbarkoppa	295	0.030
17	Alur	963	0.096
18	Tatagera	337	0.034
19	Tatagera Gavaliwada	102	0.010
20	Kerawad	2224	0.222
21	Halmaddi	626	0.063
	Zone-VI (MBT-5)		
1	Kalginagoppa	3175	0.318
2	Sambrani	1876	0.188
3	Gundolli	3212	0.321
4	Shenkankatte	844	0.084
5	Bukkankoppa	844	0.084
6	Ajminhal	1002	0.100
7	Kamtikoppa	403	0.040
8	Pandraval	790	0.079
9	AdkeHosur	1023	0.102
10	JatgeHosur	157	0.016
11	Tattigeri Gouliwada	484	0.048
12	Tattigeri	2400	0.240
13	Nilwani	465	0.047
14	Ajminal Tanda	778	0.078
15	Pura	189	0.019
	ZONE- VIA (MBT-5)		
16	Addigera	444	0.044
17	Bhimanalli	452	0.045
18	Narnalli	304	0.030
19	Chotakanshirda	158	0.016
20	Balshettikoppa	770	0.077
21	Donkanal	176	0.018
22	Bhagavati	2614	0.261
23	Bhagavti Gouliwada	1353	0.135
24	Bommnalli	750	0.075
25	Chandrasuryawada	519	0.052

PUMPING TO VILLAGES FROM PR.ISS

1 2	ISS -1(Zone 2)	M. Gouliwad Magwad
3 4	ISS -2(Zone 3)	Ghadiyal Kumbakanatti
5 6	ISS -3(Zone 4)	Shivapur Guledkoppa

TOTAL RAW WATER DEMAND

Month in liters: 48,45,25,500.00
Year in liters: 5,89,50,60,250.00
Year in mcft : 207.939
Year in tmc : 0.208

SUPPLY RATE : 85 LPCD

PUMPING HOURS : 22 HRS

POPULATION SHEET ZONE WISE

Sl. No.	Name of the Habitations	Projected Population	Water Demand in MLD
		2047	2047
	ZONE- I (MBT-1)		
1	Havagi	3483	0.348
2	Timmapur	667	0.067
3	Mangal wada	5544	0.554
4	Kerwad(H)	2189	0.219
5	Pala	1128	0.113
6	Kalasapur	295	0.030
7	Yadoga	3439	0.344
8	Bidrolli	1375	0.138
9	Modalgera	729	0.073
10	Ramapur	906	0.091
11	Handali	1280	0.128
12	Satmani	954	0.095
13	Jawalli	900	0.090
14	Niralaga	1408	0.141
	ZONE- II (MBT-1)		
1	M Gavaliwad	264	0.026
2	Magawad	920	0.092
3	Teragaon	8397	0.840
4	Arlawad	3447	0.345
5	Satnalli	2012	0.201
6	Hunswad	2967	0.297
7	Mundaki	10	0.001
8	Madnalli	1832	0.183
9	Antrolli	763	0.076
10	Homanalli	656	0.066
11	Dusagi	2464	0.246
12	Muttalmuri	2266	0.227
13	Malawad	189	0.019
	ZONE- III (MBT-2)		
1	Nagashettikoppa	1213	0.121
2	Malawadi	1004	0.100
3	Chibbalgeri	1385	0.139
4	Khamdolli	1346	0.135
5	Golehalli	936	0.094
6	Teganahalli	1357	0.136
7	Allolli	593	0.059
8	Jogankoppa	1377	0.138
9	Ammankoppa	1624	0.162
10	Kumbakanatti	557	0.056
11	Hosur	790	0.079
12	Tatvangi	2560	0.256
13	Buzur Kanchanahalli	5129	0.513
14	Banasgeri	1533	0.153
15	Chatranal	397	0.040
16	Hosahadagali	676	0.068
17	Guttibail	63	0.006
18	Pradhanhatti	821	0.082
19	Ghadiyal	696	0.070

PROPOSED JACK WELL
DIAMETER : 8.0 M
GL RL : 448.500 M
TOTAL DEPTH
OF JW : 13.88M
PSL : 438.620M

CONNECTING PIPELINE
OF 600MM Ø/NP-3 /40.0M

PROPOSED INTAKEWELL
DIAMETER : 3.0 M
RIVER BED RL : 441.000M
TOP LEVEL : 444.000M
BOTTOM LEVEL : 438.500

LEGEND

NO	PARTICULARS	NOTATION
1	RIVER SOURCE	▨
2	HEAD WORK	●
3	WATER TREATEMENT PLANT	WTP
4	MASTER BALANCING RESERVOIR (MBR)	
5	EXISTING ELSR/GLSR	
6	PROPOSED ELSR/GLSR	
7	RAW WATER RISING MAIN	🟥
8	PURE WATER RISING MAIN	🟩
9	PURE WATER GRAVITY MAIN	🟦

OD/ ID/ TYPE OF PIPE/ LENGTH IN MTRS / Q IN LPH

ND/ OD/ ID/ DI PIPE/ LENGTH IN MTRS / Q IN LPH

ND = NOMINAL DIAMETER
OD = OUTER DIAMETER
ID = INNER DIAMETER
Q = DISCHARGE IN LITRES PER HOUR

EXECUTIVE ENGINEER
RURAL DRINKING WATER AND SANITATION DIVISION
KARWAR (U.K.)

Executive Engineer
RDWS & S Division,
Karwar.

CLIENT
EXECUTIVE ENGINEER RDW&S DIVISION KARWAR

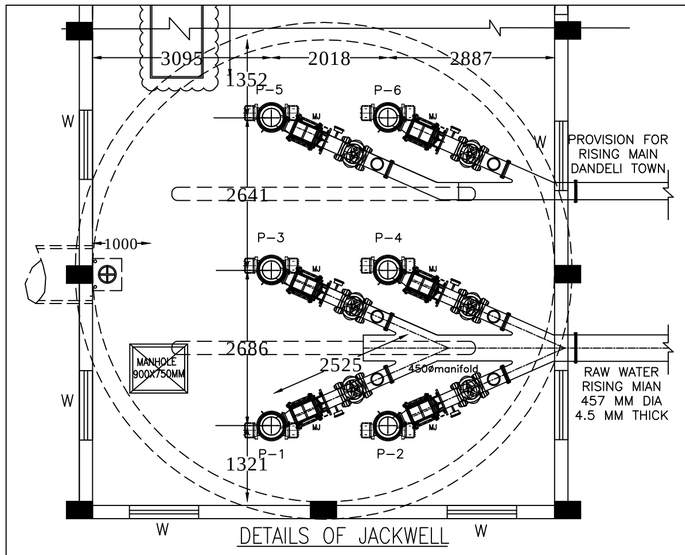
NAME OF WORK : PROVIDING WATER SUPPLY SCHEME TO TERAGAON,KAWALWAD & OTHER 111 VILLAGES IN HALIYAL TALUKA OF UTTAR KANNADA DISTRICT

KEY MAP

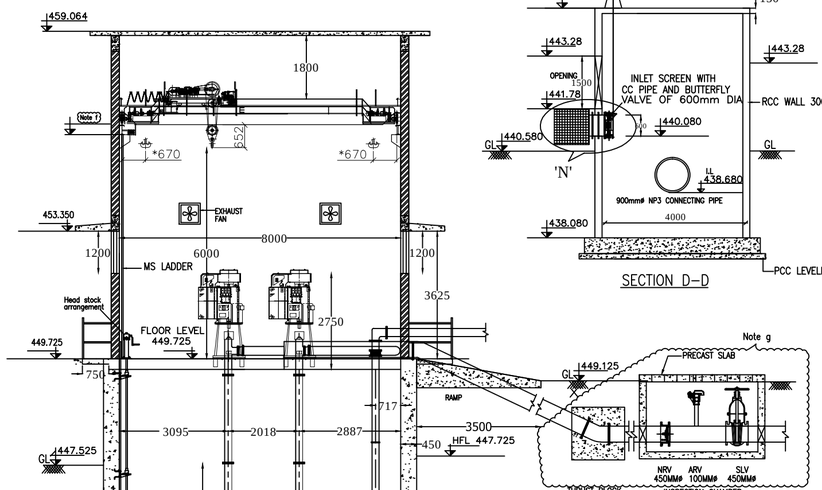
CONTRACTORS
M/s B.R.PATIL
ENGINEER'S & CONTRACTOR'S
NIPPANI, BELAGAVI

High Performance,Delivered
ADITYA ENGINEERING CONSULTANTS
LG.09, Meer Arcade,
Kali Ambrai, -Club Road,Belgaum - 590 002.
Mobile No.: 9167355345
e-mail : aec.bgm@gmail.com

DRAWN NO.	AEC/SAUND/15P/01		
DRAWN BY	DESIGNED BY	CHECKED BY	DATE
PSK	SYU	SYU	

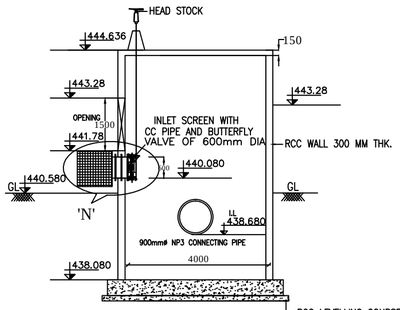


DETAILS OF JACKWELL



SECTION–AA

DRG. A. PLAN, SECTION OF JACKWELL



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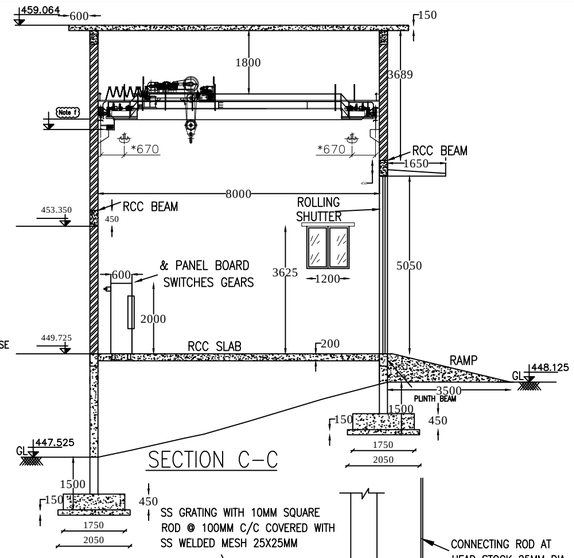
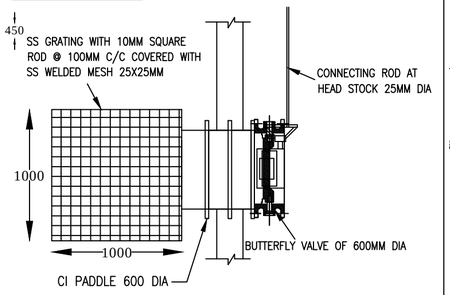
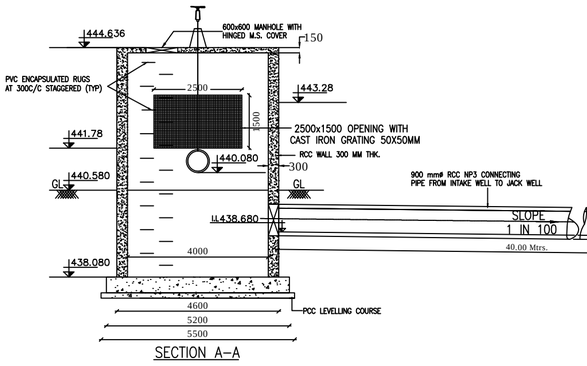


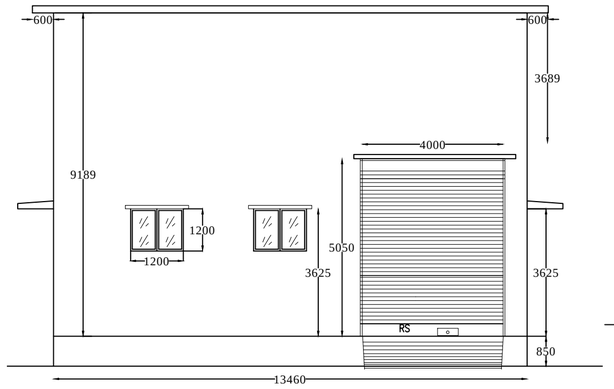
SECTION C–C



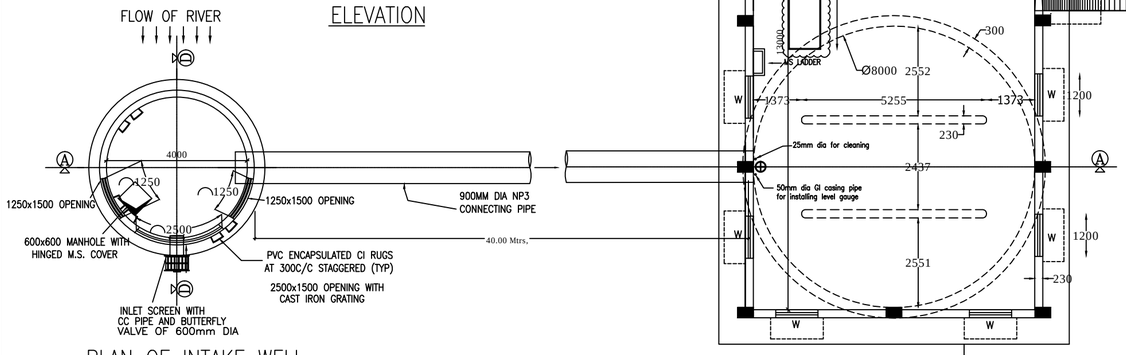
DETAILS AT–'N'



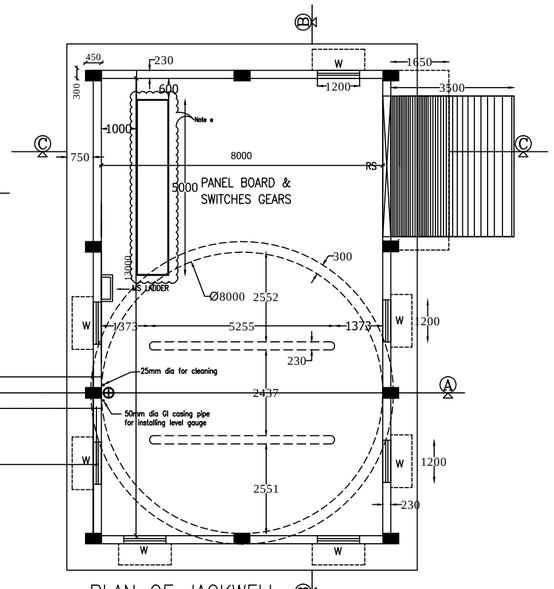
SECTION A–A



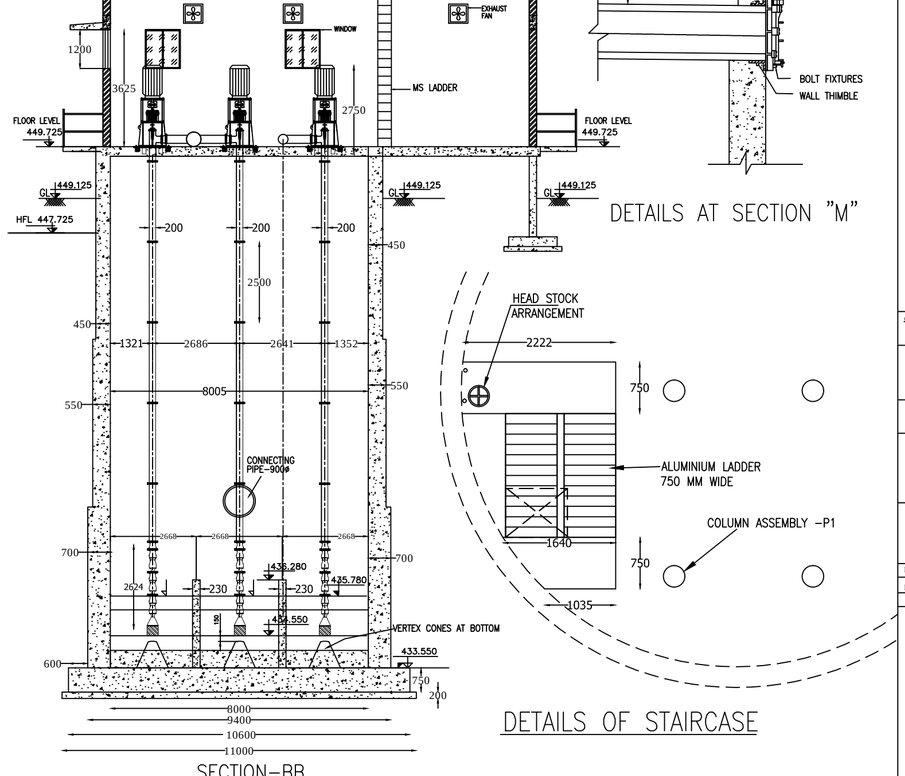
ELEVATION



PLAN OF INTAKE WELL

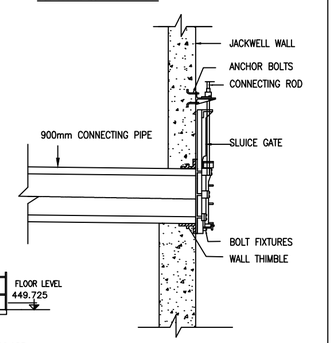


PLAN OF JACKWELL



SECTION–BB

DRG. A. PLAN, SECTION OF JACKWELL



DETAILS AT SECTION "M"

DETAILS OF STAIRCASE

Index

P-1	:	Working pump -1 Teragaon MVS
P-2	:	Working pump -2 Teragaon MVS
P-3	:	Stand by pump -3 Teragaon MVS
P-4	:	Additional space for pumping
P-5&6:		Provision of space for Instalation of pumping machinery Dandeli Town WSS
MJ	:	Mechanical joint 250 mm dia
SLV	:	Sluice valve 250 mm dia
NRV	:	Check valve 250 mm dia
PG	:	Pressure gauge 150 mm dia
AV	:	Air valve 80 mm dia
W	:	Window 1200x1200
RS	:	Rolling shutter 5050x4000
TB	:	Thrust Block 1500x1500

Note :

a) All dimensions are in milimeter
b) Do not scale the drawing as drawing not to scale
c) Refer structural drawing for RCC and structural details.
d) Please verify actual RLS with respect to permanent bench mark before execution
e) Pump sizes are considered as per initial information from pump manufacture for calculation of structural analysis and sizes of jack well, pump house and pannel room. Detailed drawings of pumping machinery will be submitted along with QAP of pumping machinery.
f) Top level of corbell supporting gantry shall be decided as per requirement of gantry dimensions and details will be furnished along with QAP of gantry girders.
g) Tentative sketch shown for GAD of head work Ref detailed drawings of thrust block and valve chamber and final sizes of TB and Valve chamber at this location will be provided along with surge analysis report and provision for separate structure will be made made if required for installation of anti surge anticipating instruments

Client

EXECUTIVE ENGINEER RDW&S DIVISION KARWAR

NAME OF WORK : PROVIDING WATER SUPPLY SCHEME TO TERAGAON,KAWALWAD & OTHER 111 VILLAGES IN HALIYAL TALUKA OF UTTAR KANNADA DISTRICT

GENERAL ARRANGEMENT DRAWING OF HEAD WORK (INTAKE-WELL AND JACK-WELL)

CONTRACTORS

M/s B.R.PATIL
ENGINEER'S & CONTRACTOR'S
NIPPANI, BELAGAVI

ADITYA ENGINEERING CONSULTANTS
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Kali Ambrai, -Club Road,Belgaum - 590 002.
Mobile No.: 9167355345
e-mail : aec.bgm@gmail.com

DRAWN NO.	AEC/MVS/TERAGAON/GAD/01			
DRAWN BY	DESIGNED BY	CHECKED BY	DATE	RIVISION
SK	VCP	SYU	FEB-2020	No.1-Dr-26.02.2020

EXECUTIVE ENGINEER RURAL DRINKING WATER AND SANITATION DIVISION KARWAR (U.K.)

Executive Engineer
RDW&S Division,
Karwar.

ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಸಂಖ್ಯೆ: ಜಸಂಇ 85 ಎಂಪಿಜಡ್ 2017

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಚಿವಾಲಯ,
ವಿಕಾಸ ಸೌಧ,
ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 14.10.2019

ಇವರಿಂದ:
ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿ,
ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆ,
ವಿಕಾಸಸೌಧ, ಬೆಂಗಳೂರು.

SE, P&I
207
6/11/19

ಇವರಿಗೆ:
1) ಮುಖ್ಯ ಇಂಜಿನೀಯರ್,
ಜಲ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿ ಸಂಸ್ಥೆ
ಆನಂದರಾವ್ ವೃತ್ತ, ಬೆಂಗಳೂರು.

2) ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು,
ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ,
ಬೆಂಗಳೂರು.

ಮಾನ್ಯರೆ,

ವಿಷಯ: ಉತ್ತರ ಕನ್ನಡ ಜಿಲ್ಲೆ ಹಳಿಯಾಳ ತಾಲ್ಲೂಕಿನ ತೇರಗಾಂವ, ಕಾವಲವಾಡ ಮತ್ತು 91 ಗ್ರಾಮಗಳಿಗೆ ಕಾಳಿ ನದಿಯಿಂದ 0.20 ಟಿ.ಎಂ.ಸಿ ನೀರನ್ನು ಕುಡಿಯುವ ನೀರಿಗೆ ಹಂಚಿಕೆ ಮಾಡುವ ಬಗ್ಗೆ.

ಉಲ್ಲೇಖ: ಇದೇ ಸಮಸಂಖ್ಯೆಯ ಪತ್ರ ದಿನಾಂಕ: 17.10.2017, 05.04.2018 ಮತ್ತು 31.05.2019.

****

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಉತ್ತರ ಕನ್ನಡ ಜಿಲ್ಲೆ ಹಳಿಯಾಳ ತಾಲ್ಲೂಕಿನ ತೇರಗಾಂವ, ಕಾವಲವಾಡ ಮತ್ತು 91 ಗ್ರಾಮಗಳಿಗೆ ಕಾಳಿ ನದಿಯಿಂದ 0.20 ಟಿ.ಎಂ.ಸಿ ನೀರನ್ನು ಕುಡಿಯುವ ನೀರಿಗೆ ಹಂಚಿಕೆ ಮಾಡುವ ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಮತ್ತು ಪಂಚಾಯತ್ ರಾಜ್ ಇಲಾಖೆಯ ಪ್ರಸ್ತಾವನೆಗೆ ಅನುಮೋದನೆ ನೀಡಿ ಸದರಿ ಇಲಾಖೆಗೆ ತಿಳಿಸಲಾಗಿದೆ ಎಂಬ ವಿಷಯವನ್ನು ತಮಗೆ ತಿಳಿಸಲು ನಾನು ನಿರ್ದೇಶಿತನಾಗಿದ್ದೇನೆ.

ತಮ್ಮ ನಂಬುಗೆಯ
14/10/19

(ಬಿ. ಹರಿನಾರಾಯಣ)
ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿ,
ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆ (ತಾಂತ್ರಿ-5)
14/10/2019

SE-1
AE-8
6/11

ಮು.ಇಂ.	
ಸೂ.ಇಂ.	
ನಿಬಂಧಕರು	
ಅಧೀಕ್ಷಕರು-1	
ಅಧೀಕ್ಷಕರು-2	
ಅಧೀಕ್ಷಕರು-3	
ಅಧೀಕ್ಷಕರು-4	

ಸಂ: 1499 ದಿನಾಂಕ: 31/10/19

"Attested"
EXECUTIVE ENGINEER
RURAL DRINKING WATER AND
SANITATION DIVISION
KARWAR (U.K.)

ಜಿಲ್ಲಾ ನಗರಾಭಿವೃದ್ಧಿ ಕೋಶ, ಜಿಲ್ಲಾಧಿಕಾರಿಗಳ ಕಾರ್ಯಾಲಯ

ಉತ್ತರ ಕನ್ನಡ ಜಿಲ್ಲೆ, ಕಾರವಾರ – 581 301

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ನಂ.ಡಿಯುಡಿಸಿ–3:ವಿವ: :2020–21

ದಿನಾಂಕ22 –06–2020

ವಿಷಯ : ಹಳಿಯಾಳ ತಾಲೂಕಿನ ಬಹುಗ್ರಾಮ ಕುಡಿಯುವ ನೀರಿನ ಯೋಜನೆ ಕಾಮಗಾರಿಯ ಜಾಕವೆಲ್ ನಿರ್ಮಾಣಕ್ಕೆ ಹಳಿಯಾಳ ಪುರಸಭೆ ಮಾಲೀಕತ್ವದ ಜಮೀನನ್ನು ಲೀಜ್ ನಾತೆಯಿಂದ ನೀಡುವ ಕುರಿತು.

ಉಲ್ಲೇಖ: 1) ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನೀಯರ, ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ ವಿಭಾಗ, ಹಳಿಯಾಳ (ಉ.ಕ.) ಇವರ ಪತ್ರ ಸಂಖ್ಯೆ: ಸಕಾನಿಇಂ:ಗ್ರಾಕು.ನೀ&ನೈ: ಉವಿಹ:ಬ.ಗ್ರಾಮ:ಕು.ನೀ.ಯೋಜನೆ:ಜಾಕವೆಲ: ನಿವೇಶನ:2019–20/489 ದಿನಾಂಕ:21–10–2019.

2) ಮುಖ್ಯಾಧಿಕಾರಿ ಪುರಸಭೆ ಹಳಿಯಾಳ ರವರ ಪತ್ರ ಸಂಖ್ಯೆ:ಪು.ಹ:ಭೂಮಿಲೀಜ್: ವಿವ:10:2019–20/729 ದಿನಾಂಕ:29–01–2020.

3) ಸಹಾಯಕ ಕಮೀಷನರ, ಕಾರವಾರ ಉಪ ವಿಭಾಗ, ಕಾರವಾರ ಹಾಗೂ ಆಡಳತಾಧಿಕಾರಿಗಳು ಪುರಸಭೆ ಹಳಿಯಾಳ ರವರ ಠರಾವ ಸಂಖ್ಯೆ: 51 ದಿನಾಂಕ:04–06–2020

4) ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ ನಅಇ/129/ಬಿಎಂಡಿ/2002 ಬೆಂಗಳೂರು ದಿನಾಂಕ: 02–06–2003

5) ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ ನಅಇ/104/ಬಿಎಂಎಸ್/2002 ಬೆಂಗಳೂರು ದಿನಾಂಕ: 09–01–2015

<u>ಪ್ರಸ್ತಾವನೆ :</u>

ಈ ಮೇಲಿನ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಹಳಿಯಾಳ ತಾಲೂಕಿನ ಬಹುಗ್ರಾಮ ಕುಡಿಯುವ ನೀರಿನ ಯೋಜನೆ ಕಾಮಗಾರಿಯ ಜಾಕವೆಲ್ ನಿರ್ಮಾಣಕ್ಕೆ ಹಳಿಯಾಳ ಪುರಸಭೆ ಮಾಲೀಕತ್ವದ ದಾಂಡೇಲಿಯಲ್ಲಿರುವ ಜಾಕ್‌ವೆಲ್ ಪಕ್ಕದಲ್ಲಿ ಲಭ್ಯ ಇರುವ ಸ್ಥಳವನ್ನು ಜಾಕವೆಲ್ ಮತ್ತು ಸಿಬ್ಬಂದಿ ವಸತಿ ಗೃಹ ನಿರ್ಮಾಣಕ್ಕಾಗಿ 07 ಗುಂಟೆ ನಿವೇಶನವನ್ನು ಮಂಜೂರಿ ಮಾಡುವ ಕುರಿತು ಉಲ್ಲೇಖ (1) ರ ಪತ್ರದಂತೆ ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನೀಯರ, ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ ವಿಭಾಗ, ಹಳಿಯಾಳ (ಉ.ಕ.) ಇವರು ವಿನಂತಿಸಿಕೊಂಡಿರುತ್ತಾರೆ, ಅದರಂತೆ ಮುಖ್ಯಾಧಿಕಾರಿಗಳು ಪುರಸಭೆ ಹಳಿಯಾಳರವರು ಸದರ ವಿಷಯವನ್ನು ಆಡಳತಾಧಿಕಾರಿಗಳು ಪುರಸಭೆ ಹಳಿಯಾಳ ರವರಿಗೆ ಮಂಡಿಸಲಾಗಿ ಸಹಾಯಕ ಕಮೀಷನರ, ಕಾರವಾರ ಉಪ ವಿಭಾಗ, ಕಾರವಾರ ಹಾಗೂ ಆಡಳತಾಧಿಕಾರಿಗಳು ಪುರಸಭೆ ಹಳಿಯಾಳ ರವರು ಸದ್ರಿ ವಿಷಯವು ಸಾರ್ವಜನಿಕರಿಗೆ ಕುಡಿಯುವ ನೀರು ಸರಬರಾಜು ಮಾಡುವ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದ್ದು ಇರುತ್ತದೆ. ಉತ್ತರ ಕನ್ನಡ ಜಿಲ್ಲೆಯ ಹಳಿಯಾಳ ತಾಲೂಕಿನ ತೇರಗಾಂವ್, ಕಾವಲವಾಡ ಮತ್ತು ಇತರೇ 91 ಗ್ರಾಮಗಳಿಗೆ ಕುಡಿಯುವ ನೀರಿನ ಸರಬರಾಜು ಯೋಜನೆ ಮಂಜೂರಾಗಿರುತ್ತದೆ. ಮತ್ತು ಜಾಕ್‌ವೆಲ್ ನಿರ್ಮಾಣಕ್ಕೆ ಜಾಗೆ ಲಭ್ಯ ಇಲ್ಲದ್ದರಿಂದ ದಾಂಡೇಲಿಯಲ್ಲಿರುವ ಹಳಿಯಾಳ ಪುರಸಭೆಯ ಜಾಕ್‌ವೆಲ್ ಜಾಗ ಸರ್ವೆ ನಂ. 81 ರಲ್ಲಿ ಪಶ್ಚಿಮ ದಿಕ್ಕಿಗೆ 15 ಮೀ * 20 ಮೀ, ಉತ್ತರ ದಿಕ್ಕಿಗೆ 17ಮೀ*20 ಮೀ ಅಳತೆ ಜಾಗೆಯನ್ನು ಜಾಕ್‌ವೆಲ್ ಸ್ಥಾಪನೆಗಾಗಿ ನೀಡಲು ವಿನಂತಿಸಿದಂತೆ ಮತ್ತು ಪುರಸಭೆ ಹಳಿಯಾಳದ ಹಾಲಿ ಇರುವ ಜಾಕ್‌ವೆಲ್ ಜೀರ್ಣಾವಸ್ಥೆಯಲ್ಲಿರುವುದರಿಂದ ಬಹುಗ್ರಾಮ ಕುಡಿಯುವ ನೀರು ಯೋಜನೆ ಕಾಮಗಾರಿ ನಿರ್ಮಿಸುವ ಜಾಕ್‌ವೆಲ್ ನಲ್ಲಿ ಹಳಿಯಾಳ ಪುರಸಭೆ ವ್ಯಾಪ್ತಿಗೆ ನೀರು ಪೂರೈಸಲು ಭವಿಷ್ಯದಲ್ಲಿ ಅನುಕೂಲವಾಗಲು ಒಂದು ಹೆಚ್ಚುವರಿ ಪಂಪ್ ಅಳವಡಿಸಲು ಸ್ಥಳ ಇಡುವ ಕರಾರಿಗೆ ಒಳಪಟ್ಟು ಸಿ.ಟಿ.ಎಸ್. ನಂ 81 ನೇದರಲ್ಲಿಯ ದಾಂಡೇಲಿಯಲ್ಲಿರುವ

ಜಾಕ್‌ವೆಲ್‌ನ ಪಕ್ಕದಲ್ಲಿ ಲಭ್ಯ ಇರುವ ಸ್ಥಳವನ್ನು ಗುರುತಿಸಿ ಒಟ್ಟೂ ಕ್ಷೇತ್ರ ಪೈಕಿ 07 ಗುಂಟೆ ನಿವೇಶನವನ್ನು 8 ವರ್ಷಗಳ ಅವಧಿಗೆ ಭೂಬಾಡಿಗೆಯಿಂದ ನೀಡಲು ಉಲ್ಲೇಖ (3) ರ ನಡಾವಳಿಯನ್ವಯ ಅನುಮೋದಿಸಿರುತ್ತಾರೆ.

ಉಲ್ಲೇಖ (2) ರ ಪತ್ರ ಹಾಗೂ ಉಲ್ಲೇಖ (3) ರ ಟಿಪ್ಪಣಿಯಂತೆ ಹಳಿಯಾಳ ತಾಲೂಕಿನ ಬಹುಗ್ರಾಮ ಕುಡಿಯುವ ನೀರಿನ ಯೋಜನೆ ಕಾಮಗಾರಿಯ ಜಾಕವೆಲ್ ನಿರ್ಮಾಣಕ್ಕೆ ಹಳಿಯಾಳ ಪುರಸಭೆ ಮಾಲೀಕತ್ವದ ದಾಂಡೇಲಿಯಲ್ಲಿರುವ ಜಾಕ್‌ವೆಲ್ ಪಕ್ಕದಲ್ಲಿ ಲಭ್ಯ ಇರುವ ಸಿಟಿಎಸ್ ನಂ. 81 ನೇದರ ಪೈಕಿ ಪಶ್ಚಿಮ ದಿಕ್ಕಿಗೆ 15 ಮೀ * 20 ಮೀ. ಉತ್ತರ ದಿಕ್ಕಿಗೆ 17ಮೀ*20 ಮೀ ಅಳತೆ ಜಾಗೆಯನ್ನು ಜಾಕ್‌ವೆಲ್ ಸ್ಥಾಪನೆಗಾಗಿ ಚಾಲ್ತಿ ಮಾರ್ಗಸೂಚಿ ಬೆಲೆ ಪ್ರತಿ ಚ.ಮೀ ರೂ.1120.00 ರಂತೆ ಒಟ್ಟು ನಿವೇಶನದ ರಕಂ ರೂ.716800.00 ಆಗುತ್ತಿದ್ದು ಆ ಪೈಕಿ ಶೇ.10 ರಷ್ಟು ಪ್ರತಿ ವರ್ಷಕ್ಕೆ ರೂ71680.00 ರಂತೆ ಲೀಜ್ ಮೊತ್ತ ನಿಗಧಿಪಡಿಸಿದ್ದು, ಸದರ್ ಸ್ಥಳವನ್ನು 08 ವರ್ಷದವರೆಗೆ ಲೀಜ್ ನಾತೆಯಿಂದ ಮಂಜೂರಿಸುವ ಕುರಿತು ಉಲ್ಲೇಖ (5) ರಂತೆ ಪ್ರದತ್ತವಾದ ಅಧಿಕಾರವನ್ನು ಚಲಾಯಿಸಿ ಈ ಕೆಳಗಿನಂತೆ ಆದೇಶಿಸಿದೆ.

ಆದೇಶ:

ಈ ಮೇಲಿನ ಪ್ರಸ್ತಾವನೆಯಲ್ಲಿ ವಿವರಿಸಿದಂತೆ ಹಳಿಯಾಳ ತಾಲೂಕಿನ ಬಹುಗ್ರಾಮ ಕುಡಿಯುವ ನೀರಿನ ಯೋಜನೆ ಕಾಮಗಾರಿಯ ಜಾಕವೆಲ್ ನಿರ್ಮಾಣಕ್ಕೆ ಹಳಿಯಾಳ ಪುರಸಭೆ ಮಾಲೀಕತ್ವದ ದಾಂಡೇಲಿಯಲ್ಲಿರುವ ಜಾಕ್‌ವೆಲ್ ಪಕ್ಕದಲ್ಲಿ ಇರುವ ಸಿಟಿಎಸ್ ನಂ. 81 ನೇದರ ಪೈಕಿ ಪಶ್ಚಿಮ ದಿಕ್ಕಿಗೆ 15 ಮೀ * 20 ಮೀ. ಉತ್ತರ ದಿಕ್ಕಿಗೆ 17ಮೀ*20 ಮೀ ಅಳತೆ ಜಾಗೆಯನ್ನು ಜಾಕ್‌ವೆಲ್ ಸ್ಥಾಪನೆಗಾಗಿ ಪ್ರತಿ ವರ್ಷಕ್ಕೆ ರೂ.71680.00 ರಂತೆ ನಿಗಧಿಪಡಿಸಿದ ದರವನ್ನು ಲೀಜ್ ಮೊತ್ತ ಎಂದು ಪರಿಗಣಿಸಿ ಲೀಜ್ ನಾತೆಯಿಂದ 08 ವರ್ಷ ಅವಧಿಗೆ ನೀಡಲು ಸಹಾಯಕ ಕಮೀಷನರ, ಕಾರವಾರ ಉಪ ವಿಭಾಗ, ಕಾರವಾರ ಹಾಗೂ ಆಡಳಿತಾಧಿಕಾರಿಗಳು ಪುರಸಭೆ ಹಳಿಯಾಳ ರವರ ಟಿಪ್ಪಣಿಯನ್ನು ಸ್ಥಿರೀಕರಿಸಿ ಈ ಕೆಳಗಿನ ನಿಬಂಧನೆಗೆ ಒಳಪಟ್ಟು ಆದೇಶಿಸಿದೆ.

ನಿಬಂಧನೆಗಳು:

1) ಲೀಜಿನ್ ಅವಧಿ ಎಂಟು ವರ್ಷಕ್ಕೆ ಮಾತ್ರ ಸೀಮಿತ ಇರುತ್ತದೆ.

2) ಪುರಸಭೆ ಹಳಿಯಾಳದ ಹಾಲಿ ಇರುವ ಜಾಕ್‌ವೆಲ್ ಜೀರ್ಣಾವ್ಯವಸ್ಥೆಯಲ್ಲಿ ಇರುವುದರಿಂದ ಬಹುಗ್ರಾಮ ಕುಡಿಯುವ ನೀರಿನ ಯೋಜನೆ ಕಾಮಗಾರಿಗೆ ನಿರ್ಮಿಸುವ ಜಾಕ್‌ವೆಲ್ ನಲ್ಲಿ ಹಳಿಯಾಳ ಪುರಸಭೆ ವ್ಯಾಪ್ತಿಗೆ ನೀರು ಪೂರೈಸಲು ಭವಿಷ್ಯದಲ್ಲಿ ಅನುಕೂಲವಾಗಲು ಕಡ್ಡಾಯವಾಗಿ ಒಂದು ಹೆಚ್ಚುವರಿ ಪಂಪ ಅಳವಡಿಸಲು ಹಳಿಯಾಳ ಪುರಸಭೆಗಾಗಿ ಸ್ಥಳ ಕಾಯ್ದಿರಿಸಿ ಇಡಬೇಕು.

3) ಒಟ್ಟು ನಿವೇಶನದ ರಕಂ ರೂ. 716800.00 ಆಗುತ್ತಿದ್ದು, ಆ ಪೈಕಿ ಶೇಕಡಾ 10 ರಂತೆ ಪ್ರತಿ ವರ್ಷಕ್ಕೆ ರೂ. 71680.00 ರಂತೆ ರಕಂವನ್ನು ನಿಗಧಿಪಡಿಸಿದ್ದು ಇರುತ್ತದೆ.

4) ಪ್ರತಿ ವರ್ಷದ ಲೀಜ್ ರಕಂವನ್ನು ಆಯಾ ಆರ್ಥಿಕ ವರ್ಷದ ಅಂದರೆ ಏಪ್ರೀಲ್ 30 ರೊಳಗೆ ಭರಣಾ ಮಾಡುವುದು.

5) ಪ್ರತಿ ವರ್ಷದ ಲೀಜ್ ರಕಂವನ್ನು ಆಯಾ ವರ್ಷದ ಮಾರ್ಗಸೂಚಿ ಬೆಲೆ ಪ್ರಮಾಣ ಪತ್ರವನ್ನು ಪರಿಗಣಿಸಿ ಶೇಕಡಾ 10 ರಂತೆ ಪರಿಷ್ಕರಣೆ ಮಾಡಲಾಗುವುದು.

6) ಸದರ ಸ್ಥಳದಲ್ಲಿ ಯಾವುದೇ ಕಟ್ಟಡ ಕಾರ್ಯಾಗಾರ ವಗೈತೆ ಕಟ್ಟುವ ಪೂರ್ವದಲ್ಲಿ ಈ ಕಾರ್ಯಾಲಯವಿಂದ ಹಾಗೂ ಸ್ಥಳ ವ್ಯಾಪ್ತಿ ಹೊಂದಿರುವ ದಾಂಡೇಲಿ ನಗರ ಸಭೆಯಿಂದ ಪರವಾನಿಗೆ ಪಡೆಯುವುದು.

7) ಲೀಜ್ ಪಡೆಯುವವರು ಸ್ವಂತ ಖರ್ಚಿನಿಂದ ಸದರ ಜಾಗೆಯ ಲೀಜು ನೊಂದಣಿಯನ್ನು ಮಾಡಿಸಿಕೊಳ್ಳುವುದು.

8) ಜಾಗೆಯನ್ನು ಯಾವ ಉದ್ದೇಶಕ್ಕೆ ನೀಡಲಾಗಿದೆಯೋ ಅದೇ ಉದ್ದೇಶಕ್ಕೆ ಉಪಯೋಗಿಸುವುದು.

9) ಹಳಿಯಾಳ ಪುರಸಭೆ ಹಾಗೂ ಜಾಕ್‌ವೆಲ್ ಕಾಮಗಾರಿಯ ನಿವೇಶನಕ್ಕೆ ಜಂಟಿಯಾಗಿ ಲೀಜ್ ನೀಡುವ ಸ್ಥಳಕ್ಕೆ ರಸ್ತೆ ಸಂಪರ್ಕದ ಖರ್ಚುವನ್ನು ನಿರ್ವಹಿಸುವುದು.

10) ಭವಿಷ್ಯದಲ್ಲಿ ನದರ ಜಾಗೆ ಹಳಿಯಾಳ ಪುರಸಭೆ ಕಾರ್ಯಾಲಯಸ್ಥೆ ಅತೀ ಅವಶ್ಯಕತೆಯಿದ್ದಲ್ಲಿ ಪರ್ಯಾರು ವ್ಯವಸ್ಥೆಯನ್ನು ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನೀಯರು ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ ವಿಭಾಗ ಹಳಿಯಾಳ (ಉ.ಕ.) ರವರು ಮಾಡಿಸಿಕೊಳ್ಳುವುದು.

11) ಪ್ರತಿ ವರ್ಷದ ಲೀಜ ರಕಂವನ್ನು ಆಯಾ ಆರ್ಥಿಕ ವರ್ಷದ ಏಪ್ರೀಲ್ 30 ರೊಳಗೆ ಭರಣಾ ಮಾಡುವುದು. ಒಂದು ವೇಳೆ ಲೀಜ ರಕಂ ಭರಣಾ ಮಾಡದೇ ನಿಬಂಧನೆ ಉಲ್ಲಂಘಿಸಿದಲ್ಲಿ ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜನೀಯರು ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ನೈಮಲ್ಯ ಉಪ ವಿಭಾಗ ಹಳಿಯಾಳ (ಉ.ಕ.) ರವರು ಹಳಿಯಾಳ ಪುರಸಭೆಗೆ ವಾರ್ಷಿಕ ಲೀಜ್ ನ ರಕಂ ನ ಮೇಲೆ ಶೇಕಡಾ 5 ರಷ್ಟು ದಂಡದ ಸ್ವರೂಪವಾಗಿ ಪ್ರತಿ ತಿಂಗಳಂತೆ ನದರ ಲೀಜ್ ರಕಂ ಪೂರ್ತಿಭರಣಾ ಮಾಡುವವರೆಗೆ ತಪ್ಪದೇ ಭರಣಾ ಮಾಡುವುದು.

12) ಅರಣ್ಯ ಇಲಾಖೆಯ ಜಮೀನನ್ನು ಲೀಜ್ ಆಧಾರದ ಮೇಲೆ ನೀಡಲು ಆಕ್ಷೇಪಣೆ ಇಲ್ಲದೇ ಇರುವ ಕುರಿತು ಅರಣ್ಯ ಇಲಾಖೆಯ ಒಪ್ಪಿಗೆ ಪತ್ರ ಪಡೆಯುವುದು.

ಜಿಲ್ಲಾಧಿಕಾರಿ
ಉತ್ತರ ಕನ್ನಡ, ಕಾರವಾರ

ಪ್ರತಿ :
1. ಮುಖ್ಯಾಧಿಕಾರಿ ಪುರಸಭೆ ಹಳಿಯಾಳರವರಿಗೆ ಸೂಕ್ತಕ್ರಮಕ್ಕಾಗಿ ಕಳುಹಿಸಿದೆ.
2. ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನೀಯರ, ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ ವಿಭಾಗ, ಹಳಿಯಾಳ (ಉ.ಕ.) ರವರಿಗೆ ಮಾಹಿತಿಗಾಗಿ ಹಾಗೂ ಸೂಕ್ತಕ್ರಮಕ್ಕಾಗಿ ಕಳುಹಿಸಿದೆ.

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ಈ ದಸ್ತಾವೇಜು ಹಾಳೆಯನ್ನು ಸಂಘದ ಉಪನಿಯಮ ಸಂಖ್ಯೆ 5(9) ರ ಪ್ರಕಾರ ಮುದ್ರಿಸಲಾಗಿದೆ.

ದಸ್ತಾವೇಜು ಹಾಳೆ
Document Sheet

ಕರ್ನಾಟಕ ರಾಜ್ಯ ನೋಂದಣಿ ಮತ್ತು ಮುದ್ರಾಂಕ ಇಲಾಖಾ ನೌಕರರ ವಿವಿಧೋದ್ದೇಶ ಸಹಕಾರ ಸಂಘ ನಿಯಮಿತ

The Karnataka State Registration and Stamps Department Official's Multipurpose Co-Operative Society Ltd.

ಈ ಹಾಳೆಯನ್ನು ಯಾವುದೇ ದಸ್ತಾವೇಜಿಗೆ ಉಪಯೋಗಿಸಬಹುದು
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ಬೆಲೆ : ರೂ. 2/-
(GST EXTRA)

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ಖಾಲಿ ಸ್ಥಳದ ಬಾಡಿಗೆ ಕರಾರು ಪತ್ರ ಯಾನೆ ಲೀಸ್ ಅಗ್ರಿಮೆಂಟ್

ಸನ್ 2020 ನೇ ಇಸವಿ ಆಗಸ್ಟ್ ತಿಂಗಳ 20 ನೇ ತಾರೀಖಿನ ದಿವಸ:-(ದಿನಾಂಕ:-20-08-2020)

1.ಮುಖ್ಯಾಧಿಕಾರಿ, ಪುರಸಭೆ ಹಳಿಯಾಳ ಉತ್ತರ ಕನ್ನಡ ಜಿಲ್ಲೆ, ಹಳಿಯಾಳ ತಾಲೂಕ, ಪುರಸಭೆ ಹಳಿಯಾಳದಲ್ಲಿರುವ ನಾನು (ಸ್ವತ್ತಿನ ಮಾಲೀಕರು) (ಬಾಡಿಗೆಗೆ ಕೊಡುವರೆಂದು ಕರೆಯಲ್ಪಡುವ) **ಪಾರ್ಟಿ ನಂ:-1**

2.ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ, ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ ವಿಭಾಗ ಹಳಿಯಾಳ (ಉ.ಕ.) (ಬಾಡಿಗೆದಾರರು) (ಬಾಡಿಗೆಗೆ ಪಡೆದುಕೊಂಡರೆಂದು ಕರೆಯಲ್ಪಡುವ) **ಪಾರ್ಟಿ ನಂ:-2**

ಈ ಕೆಳಗೆ ಶೆಡ್ಯೂಲ್ ನಲ್ಲಿ ವಿವರಿಸಿದ ಆಸ್ತಿಯು ಪಾರ್ಟಿ ನಂ:-1 ನೇಯವರ ಹೆಸರಿಗೆ ವ ಕಬ್ಜಾದಲ್ಲಿರುವಂತಹ ಸ್ವತಂತ್ರ ಹಕ್ಕಿನ ಆಸ್ತಿಯಾಗಿದೆ. ಅದನ್ನು ಪಾರ್ಟಿ ನಂ:-1 ನೇಯವರು ಪಾರ್ಟಿ ನಂ:-2 ನೇಯವರಿಗೆ ಬಾಡಿಗೆಕೊಡುವ ಅಧಿಕಾರವುಳ್ಳವರಾಗಿರುತ್ತಾರೆ.
ಒಂದನೇ ಪಾರ್ಟಿ ಸ್ವತ್ತಿನ ಮಾಲೀಕರು ಹಾಗೂ ಎರಡನೇ ಪಾರ್ಟಿ ಬಾಡಿಗೆದಾರರು ಒಪ್ಪಿ ಮಾಡಿಕೊಂಡ ಬಾಡಿಗೆ ಕರಾರು ಪತ್ರ ಲೀಸ್ ಅಗ್ರಿಮೆಂಟ್‌ದ ಕ್ರಮವೇನೆಂದರೆ,

ಹಳಿಯಾಳ ತಾಲೂಕಿನ ಬಹುಗ್ರಾಮ ಕುಡಿಯುವ ನೀರಿನ ಯೋಜನೆ ಕಾಮಗಾರಿಯ ಜಾಕ್‌ವೆಲ್ ನಿರ್ಮಾಣಕ್ಕೆ ಹಳಿಯಾಳ ಪುರಸಭೆ ಮಾಲೀಕತ್ವದ ದಾಂಡೇಲಿಯಲ್ಲಿರುವ ಜಾಕ್‌ವೆಲ್ ಪಕ್ಕದಲ್ಲಿ ಲಭ್ಯ ಇರುವ ಸಿ.ಟಿ.ಎಸ್.ನಂ 81 ನೇದ್ದರ ಪೈಕಿ 1)ಪಶ್ಚಿಮ ದಿಕ್ಕಿಗೆ 15ಮೀ X 20 ಮೀ.(2)ಉತ್ತರ ದಿಕ್ಕಿಗೆ 17 ಮೀ. X 20 ಮೀ. ಅಳತೆ ಜಾಗೆಯನ್ನು ಜಾಕ್‌ವೆಲ್ ಸ್ಥಾಪನೆಗಾಗಿ ಪ್ರತಿ ವರ್ಷಕ್ಕೆ ರೂ.71,680/-ರಂತೆ ನಿಗದಿ ಪಡಿಸಿದ ದರವನ್ನು ಲೀಜ್ ಮೊತ್ತ ಎಂದು ಪರಿಗಣಿಸಿ ಲೀಜ್ ನಾತೆಯಿಂದ 08 ವರ್ಷ ಅವಧಿಗೆ ಲಭ್ಯವಿರುವ ಸ್ಥಳವನ್ನು ನೀಡಲು ಮಾನ್ಯ ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು ಉತ್ತರ ಕನ್ನಡ ಕಾರವಾರ ಇವರ ಆದೇಶ ಸಂಖ್ಯೆ:ಡಿಯುಡಿಸಿ-3ವಿವ-2020-21 ದಿನಾಂಕ:-22/06/2020 ಇರುತ್ತದೆ. ಹಾಗೂ ಆಡಳಿತಾಧಿಕಾರಿಗಳು ಪುರಸಭೆ ಹಳಿಯಾಳ ರಚರ ಟಿಪ್ಪಣಿಯನ್ನು ಸ್ಥಿರೀಕರಿಸಿ ಈ ಕೆಳಗಿನ ನಿಬಂಧನೆಗೆ ಒಳಪಟ್ಟು ಆದೇಶಿಸಿದೆ, ಬಹುಗ್ರಾಮ ಕುಡಿಯುವ ನೀರಿನ ಯೋಜನೆ ಕಾಮಗಾರಿಯ ಜಾಕ್‌ವೆಲ್ ನಿರ್ಮಾಣಕ್ಕೆ ಎರಡನೇ ಪಾರ್ಟಿಯವರು ಬಾಡಿಗೆಗೆ ಕೇಳಿದ್ದರ ಮೇರೆಗೆ ಒಂದನೇ ಪಾರ್ಟಿಯವರು ಎರಡನೇ ಪಾರ್ಟಿಗೆ ಈ ಕೆಳಕಂಡ ಬಾಡಿಗೆ ಕರಾರು ಪತ್ರ ಲೀಸ್ ಅಗ್ರಿಮೆಂಟ್‌ನ್ನು ಮಾಡಲಾಗಿರುತ್ತದೆ.

ಪಾರ್ಟಿಗಳು ಒಪ್ಪಿ ಮಾಡಿಕೊಂಡ ಬಾಡಿಗೆ ಕರಾರು ಪತ್ರ ಲೀಸ್ ಅಗ್ರಿಮೆಂಟ್‌ದ ಕ್ರಮವೇನೆಂದರೆ,

-:ನಿಬಂಧನೆಗಳು/ ಷರತ್ತುಗಳು:-

1.ಲೀಜಿನ್ ಅವಧಿ ಎಂಟು ವರ್ಷಕ್ಕೆ ಮಾತ್ರ ಸಿಮಿತ ಇರುತ್ತದೆ.

2.ಪುರಸಭೆ ಹಳಿಯಾಳದ ಹಾಲಿ ಇರುವ ಜಾಕ್‌ವೆಲ್ ಜೀರ್ಣಾವ್ಯವಸ್ಥೆಯಲ್ಲಿ ಇರುವುದರಿಂದ ಬಹುಗ್ರಾಮ ಕುಡಿಯುವ ನೀರಿನ ಯೋಜನೆ ಕಾಮಗಾರಿಯ ನಿರ್ಮಿಸುವ ಜಾಕ್ ವೆಲ್ ನಲ್ಲಿ ಹಳಿಯಾಳ ಪುರಸಭೆ ವ್ಯಾಪ್ತಿಗೆ ನೀರು ಪೂರೈಸಲು ಭವಿಷ್ಯದಲ್ಲಿ ಅನುಕೂಲವಾಗಲು ಕಡ್ಡಾಯವಾಗಿ ಒಂದು ಹೆಚ್ಚುವರಿ ಪಂಪ ಅಳವಡಿಸಲು ಹಳಿಯಾಳ ಪುರಸಭೆಗಾಗಿ ಸ್ಥಳ ಕಾಯ್ದಿರಿಸಿ ಇಡಬೇಕು.
3)ಒಟ್ಟು ನಿವೇಶನದ ರಕಂ ರೂ.7,16,800/-ಆಗುತ್ತಿದ್ದು ಆ ಪೈಕಿ ಶೇಕಡಾ 10 ರಂತೆ ಪ್ರತಿ ವರ್ಷಕ್ಕೆ ರೂ.71,680/-ರಂತೆ ರಕಂವನ್ನು ನಿಗಧಿಪಡಿಸಿದ್ದು ಇರುತ್ತದೆ.

ಮುಖ್ಯಾಧಿಕಾರಿ
ಪುರಸಭೆ ಹಳಿಯಾಳ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನೀಯರು
ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ
ಉಪವಿಭಾಗ ಹಳಿಯಾಳ (ಉ.ಕ)

Print Date & Time : 20-08-2020 03:56:32 PM

ದಸ್ತಾವೇಜು ಸಂಖ್ಯೆ : 529

ಸಬ್ ರಜಿಸ್ಟ್ರಾರ ಹಳಿಯಾಳ ರವರ ಕಚೇರಿಯಲ್ಲಿ ದಿನಾಂಕ 20-08-2020 ರಂದು 12:55:40 PM ಗಂಟೆಗೆ ಈ ಕೆಳಗೆ ವಿವರಿಸಿದ ಶುಲ್ಕದೊಂದಿಗೆ

ಕ್ರಮ ಸಂಖ್ಯೆ	ವಿವರ	ರೂ. ಪೈ
1	ನೋಂದಣಿ ಶುಲ್ಕ	300.00
2	ಸ್ಕ್ಯಾನಿಂಗ್ ಫೀ	350.00
3	ಸ್ಕ್ಯಾನಿಂಗ್ ಫೀ	175.00
4	ಪರಿವರ್ತನಾ ಶುಲ್ಕ	75.00
5	ಪರಿಶೋಧನಾ ಶುಲ್ಕ	40.00
	ಒಟ್ಟು :	940.00

ಶ್ರೀ ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ ವಿಭಾಗ ಹಳಿಯಾಳ (ಉ.ಕ) ಇವರಿಂದ ಹಾಜರ ಮಾಡಲ್ಪಟ್ಟಿದೆ

ಹೆಸರು	ಫೋಟೊ	ಹೆಬ್ಬೆಟ್ಟಿನ ಗುರುತು	ಸಹಿ
ಶ್ರೀ ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ ವಿಭಾಗ ಹಳಿಯಾಳ (ಉ.ಕ)			ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನೀಯರ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪವಿಭಾಗ ಹಳಿಯಾಳ (ಉ.ಕ)

ಸಬ್ ರಜಿಸ್ಟ್ರಾರ

20 AUG 2020

ಬರೆದುಕೊಟ್ಟಿದ್ದಾಗಿ ಒಪ್ಪಿರುತ್ತಾರೆ

ಕ್ರಮ ಸಂಖ್ಯೆ	ಹೆಸರು	ಫೋಟೊ	ಹೆಬ್ಬೆಟ್ಟಿನ ಗುರುತು	ಸಹಿ
1	ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ ವಿಭಾಗ ಹಳಿಯಾಳ (ಉ.ಕ) . (ಬರೆಸಿಕೊಂಡವರು)			ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನೀಯರು ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪವಿಭಾಗ ಹಳಿಯಾಳ (ಉ.ಕ)
2	ಮುಖ್ಯಾಧಿಕಾರಿ ಪುರಸಭೆ ಹಳಿಯಾಳ (ಉ.ಕ) . (ಬರೆದುಕೊಡುವವರು)			ಮುಖ್ಯಾಧಿಕಾರಿ ಪುರಸಭೆ ಹಳಿಯಾಳ (ಉಕ)

ಸಬ್ ರಜಿಸ್ಟ್ರಾರ

20 AUG 2020

4.)ಪ್ರತಿ ವರ್ಷದ ಲೀಜ್ ರಕಂವನ್ನು ಆಯಾ ಆರ್ಥೀಕ ವರ್ಷದ ಅಂದರೆ ಎಪ್ರೀಲ್ 30 ರೊಳಗೆ ಭರಣಾ ಮಾಡುವುದು

5)ಪೀ ನಿಗದಿ ಪಡಿಸಿದ ವಾರ್ಷೀಕ ರಕಂನ ಮೇಲೆ ಶೇ2% ಹೆಚ್ಚುವರಿ ಮಾಡಿ ಭರಣಾ ಮಾಡಿಕೊಳ್ಳಲಾಗುವುದು.

6)ಸದರ ಸ್ಥಳದಲ್ಲಿ ಯಾವುದೇ ಕಟ್ಟಡ ಕಾಮಗಾರಿ ವಗೈರೆ ಕಟ್ಟುವ ಪೂರ್ವದಲ್ಲಿ ಈ ಕಾರ್ಯಾಲಯದಿಂದ ಹಾಗೂ ಸ್ಥಳ ವ್ಯಾಪ್ತಿ ಹೊಂದಿರುವ ದಾಂಡೇಲಿ ನಗರ ಸಭೆಯಿಂದ ಪರವಾನಿಗೆ ಪಡೆಯುವುದು.

7)ಲೀಜ್ ಪಡೆಯುವವರು ಸ್ವಂತ ಖರ್ಚಿನಿಂದ ಸದರ ಜಾಗೆಯ ಲೀಜ ನೊಂದಣಿಯನ್ನು ಮಾಡಿಸಿಕೊಳ್ಳುವುದು.

8.) ಜಾಗೆಯನ್ನು ಯಾವ ಉದ್ದೇಶಕ್ಕಾಗಿ ನೀಡಲಾಗಿದೆಯೋ ಅದೇ ಉದ್ದೇಶಕ್ಕೆ ಉಪಯೋಗಿಸುವುದು.

9.)ಹಳಿಯಾಳ ಪುರಸಭೆ ಹಾಗೂ ಜಾಕ್‌ವೆಲ್ ಕಾಮಗಾರಿಯ ನಿವೇಶನಕ್ಕೆ ಜಂಟಿಯಾಗಿ ಲೀಜ್ ನೀಡುವ ಸ್ಥಳಕ್ಕೆ ರಸ್ತೆ ಸಂಪರ್ಕದ ಖರ್ಚುವನ್ನು ನಿರ್ವಹಿಸುವುದು.

10.)ಭವಿಷ್ಯದಲ್ಲಿ ಸದರ ಜಾಗೆ ಹಳಿಯಾಳ ಪುರಸಭೆ ಕಾರ್ಯಾಲಯಕ್ಕೆ ಅತೀ ಅವಶ್ಯವಿದ್ದಲ್ಲಿ ಪರ್ಯಾಯ ವ್ಯವಸ್ಥೆಯನ್ನು ಸಹಾಯಕ ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಇಂಜಿನೀಯರು ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ ವಿಭಾಗ ಹಳಿಯಾಳ (ಉ.ಕ.) ಮಾಡಿಸಿಕೊಳ್ಳುವುದು.

11.)ಪ್ರತಿ ವರ್ಷದ ಲೀಜ ರಕಂವನ್ನು ಆಯಾ ಆರ್ಥೀಕ ವರ್ಷದ ಎಪ್ರೀಲ್ 30 ರೊಳಗೆ ಭರಣಾ ಮಾಡುವುದು. ಒಂದು ವೇಳೆ ಲೀಜ ರಕಂ ಭರಣಾ ಮಾಡದೇ ನಿಭಂದನೆ ಉಲ್ಲಂಘಿಸಿದಲ್ಲಿ **ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ, ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ ವಿಭಾಗ ಹಳಿಯಾಳ (ಉ.ಕ.)** ರವರು ಹಳಿಯಾಳ ಪುರಸಭೆಗೆ ವಾರ್ಷಿಕ ಲೀಜ್ ನ ರಕಂ ನ ಮೇಲೆ ಶೇಕಡಾ 5 ರಷ್ಟು ದಂಡದ ಸ್ವರೂಪವಾಗಿ ಪ್ರತಿ ತಿಂಗಳಿನಂತೆ ಸದರ ಲೀಜ್ ರಕಂ ಪೂರ್ತಿ ಭರಣಾ ಮಾಡುವವರೆಗೆ ತಪ್ಪದೇ ಭರಣಾ ಮಾಡುವುದು.

12.)ಅರಣ್ಯ ಇಲಾಖೆಯ ಜಮೀನನ್ನು ಲೀಜ್ ಆಧಾರದ ಮೇಲೆ ನೀಡಲು ಆಕ್ಷೇಪಣೆ ಇಲ್ಲದೇ ಇರುವ ಕುರಿತು ಅರಣ್ಯ ಇಲಾಖೆಯ ಒಪ್ಪಿಗೆ ಪತ್ರ ಪಡೆಯುವುದು.

ಮುಖ್ಯಾಧಿಕಾರಿ
ಪುರಸಭೆ, ಹಳಿಯಾಳ (ಉಕ)

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನೀಯರು
ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ
ಉಪವಿಭಾಗ ಹಳಿಯಾಳ (ಉ.ಕ)

ಗುರುತಿಸುವವರು

ಕ್ರಮ ಸಂಖ್ಯೆ	ಹೆಸರು ಮತ್ತು ವಿಳಾಸ	ಸಹಿ
1	ಶ್ರೀ ಮಹ್ಮದಗೌಸ ಲಿಯಾಖತ ಮಿರ್ಜಿ ಸಾಃ ಚಿಕೋಡಿ	
2	ಶ್ರೀ ಶಂಕರ ಗಂಗಾಧರ ಬಳ್ಳಾರಿ ಸಾಃ ಚವ್ಹಾಣ ಪ್ಲಾಟ ಹಳಿಯಾಳ	

Suchitra

ಸಬ್ ರಜಿಸ್ಟ್ರಾರ

20 AUG 2020

1 ನೇ ಪುಸ್ತಕದ ದಸ್ತಾವೇಜು
ನಂಬರ HLY-1-00529-2020-21 ಆಗಿ
ಸಿ.ಡಿ. ನಂಬರ HLYD495 ನೇ ದ್ದರಲ್ಲಿ
ದಿನಾಂಕ 20-08-2020 ರಂದು ನೋಂದಾಯಿಸಲಾಗಿದೆ

Suchitra

ಸಬ್ ರಜಿಸ್ಟ್ರಾರ (ಹಳಿಯಾಳ)

20 AUG 2020

-:ಈ ಬಾಡಿಗೆ ಕರಾರು ಪತ್ರಕ್ಕೆ ಒಳಪಟ್ಟ ಆಸ್ತಿಯ ಶೆಡ್ಯೂಲ್:-

ಉತ್ತರ ಕನ್ನಡ ಜಿಲ್ಲೆಯ, ದಾಂಡೇಲಿ ನಗರ ಸಭೆ ವ್ಯಾಪ್ತಿಗೆ ಒಳಪಡುವಂತಹ ದಾಂಡೇಲಿ ಶಹರದಲ್ಲಿರುವಂತಹ ಆಸ್ತಿಯು ಅದರ ದಾಂಡೇಲಿ ನಗರದ ಸಿ.ಟಿ.ಎಸ್.ನಂ 81, ವಿಸ್ತೀರ್ಣ=4015.11 ಚದರ ಮೀಟರ. ನೇದ್ದರ ಪೈಕಿ ಪಶ್ಚಿಮ ಭಾಗ ದಿಕ್ಕಿನ ಕ್ಷೇತ್ರ= 15ಮೀ X 20 ಮೀ. =300.00 ಚ.ಮೀ. ಉತ್ತರ ಭಾಗ ದಿಕ್ಕಿನ ಕ್ಷೇತ್ರ= 17 ಮೀ. X 20 ಮೀ. =340.00 ಚ.ಮೀ. ಇರುವ ಖಾಲಿ ಜಾಗೆಯು.

ಅಂತಾ ಒಂದನೇ ಪಾರ್ಟಿಯವರು ಮತ್ತು ಎರಡನೇ ಪಾರ್ಟಿಯವರು ಆದ ನಾವು ಪರಸ್ಪರರು ಒಪ್ಪಿ ಮಾನ್ಯ ಉಪ ನೊಂದಣಿ ಇಲಾಖೆ ಹಳಿಯಾಳದಲ್ಲಿ ನೋಂದ ಪಡೆಸಿಕೊಟ್ಟ ಬಾಡಿಗೆ ಕರಾರು ಪತ್ರ/ಲೀಸ್ ಅಗ್ರಿಮೆಂಟ್ ಪತ್ರ ಸರಿ, ಸಹಿ, ಸಾಕ್ಷಿ, ತಾರೀಖು, ಸದರ.

ಮುಖ್ಯಾಧಿಕಾರಿ, ಪುರಸಭೆ ಹಳಿಯಾಳ
ಮಾಲೀಕರು
(ಒಂದನೇ ಪಾರ್ಟಿ)

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜನೀಯರು
ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪವಿಭಾಗ ಹಳಿಯಾಳ
ಬಾಡಿಗೆದಾರರು
(ಎರಡನೇ ಪಾರ್ಟಿ)

ಸಾಕ್ಷಿಗಳು:-

1. ಮಹ್ಮದ ಗೌಸ ಅಬ್ದುಲ ಲತೀಪ ದಾಂಡೇಲಿ

2. ಶಂಕರ ಗಂಗಾಧರ ಬೆಳ್ಳಕ್ಕಿ ಬೆಳ್ವಣಕಿ ಹಳಿಯಾಳ

ದಸ್ತೂರ

ಮಂಜುನಾಥ ಪರಶುರಾಮ ಕೋಳೂರ
ಜಿಲ್ಲಾದಸ್ತು ಬರಹಗಾರರು, ಹಳಿಯಾಳ
Licence No.:DR/DWL/2/2012-13
Cell : 9986123857

ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ನೋಂದಣಿ ಹಾಗೂ ಮುದ್ರಾಂಕ ಇಲಾಖೆ

Department of Stamps and Registration

ಪ್ರಮಾಣ ಪತ್ರ

1957 ರ ಕರ್ನಾಟಕ ಮುದ್ರಾಂಕ ಕಾಯ್ದೆಯ ಕಲಂ 10 ಎ ಅಡಿಯಲ್ಲಿಯ ಪ್ರಮಾಣ ಪತ್ರ

ಶ್ರೀ ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಉಪ ವಿಭಾಗ ಹಳಿಯಾಳ (ಉ.ಕ) , ಇವರು 500.00 ರೂಪಾಯಿಗಳನ್ನು ನಿಗದಿತ ಮುದ್ರಾಂಕ ಶುಲ್ಕವಾಗಿ ಪಾವತಿಸಿರುವದನ್ನು ದೃಡಿಕರಿಸಲಾಗಿದೆ

ಪ್ರಕಾರ	ಮೊತ್ತ (ರೂ.)	ಹಣದ ಪಾವತಿಯ ವಿವರ
ಚಲನ್	500.00	Challan No CR0820003000324991 Rs.500/- dated 20/Aug/2020
ಒಟ್ಟು :	500.00	

ಸ್ಥಳ : ಹಳಿಯಾಳ

ದಿನಾಂಕ : 20/08/2020

Shchitra

ಉಪ-ನೋಂದಣಿ ಮತ್ತು ಮುದ್ರಾಂಕ ಅಧಿಕಾರಿ

(ಹಳಿಯಾಳ)

ಹಿರಿಯ ಉಪ ನೋಂದಣಾಧಿಕಾರಿ
ಹಳಿಯಾಳ (ಉ.ಕ)

20 AUG 2020

Designed and Developed by C- DAC Pune.