

**BHARAT HEAVY ELECTRICALS LIMITED**  
**RAMACHANDRAPURAM :: HYDERABAD-502032**  
**(TOWNSHIP ADMINISTRATION)**

**PRICE BID**

**Tender Notice No.HY/TA/OT-19/2020-21, Date: 23.01.2021**

**Name of Work: "Drilling of 15 nos of borewells in Township area.**

Sl.No.	Description	Unit	Qty	Rate	Amount
1	Drilling of Bore wells of 163 mm dia (6.5") at identified places in all types of soils including all incidentals charges, transportation etc. complete as directed by Engineer-in-charge.(All the materials are under contractor scope only)				
a)	Upto 60 mtrs. Depth (up to 200 feet)	Rmt	1080	173.44	187,319.52
b)	From 60 mtrs above up to 90 mtrs. Depth (200 above to 300 feet)	Rmt	540	212.86	114,944.40
c)	from 90 mtrs above up to 120 mtrs. Depth (300 above to 400 feet)	Rmt	540	252.27	136,225.80
d)	from 120 mtrs above up to 150 mtrs. Depth (400 above to 500 feet)	Rmt	540	331.11	178,799.40
e)	from 150 mtrs above up to 180 mtrs. Depth (500 above to 600 feet)	Rmt	540	426.40	230,256.00
f)	from 180 mtrs. Above up to 210 mtrs. Depth (600 above to 700 feet)	Rmt	540	524.80	283,392.00
g)	from 200 mtrs. Above up to 250 mtrs. Depth (700 above to 800 feet)	Rmt	450	656.00	295,200.00
h)	from 250 mtrs. Above up to 280 mtrs. Depth (800 above to 900 feet)	Rmt	300	787.20	236,160.00
i)	from 280 mtrs. Above up to 310 mtrs. Depth (900 above to 1000 feet)	Rmt	300	951.20	285,360.00
2	Supplying and fixing in position of PVC Sudhakar make 6 Kgs / Sq. Cm casing pipe of 200 mm (8"), heavy duty as per IS 4995, ISI marked upto required depth including cost of all materials and other incidentals etc. complete. (All the materials with necessary fittings are in contractor scope only)	Rmt	750.00	788.35	591,262.50
3	Labour charges for laying of 150 mm nominal bore GI pipe medium grade properties and weight as per IS 1239, ISI marked with GI fittings, including , cost of fittings, Specials like bends,tees, elbows, jointing pipe with falge and Nut bolts..etc labour charges, testing, carriage of pipe from stores etc. complete as directed by Engineer-in-charge. (Only GI Pipe will be free issued by BHEL and necessary fittings are in contractor scope )	Rmt	3500.00	503.08	1,760,780.00
4	Labour charges for laying of 100 mm nominal bore GI Pipe medium grade properties and weight as per IS 1239, ISI marked with GI fittings, including trenching and refilling ,cost of fittings, Specials like bends,tees, elbows..etc, labour charges, testing, carriage of pipe from stores etc. complete as directed by Engineer-in-charge. .(Only GI Pipe will be free issued by BHEL and necessary fittings are in contractor scope ).	Rmt	1400.00	524.00	733,600.00
5	Labour charges for laying of 80 mm nominal bore GI Pipe medium grade properties and weight as per IS 1239, ISI marked with GI fittings, cost of fittings, Specials like bends,tees, elbows..etc,labour charges, testing, carriage of pipe from stores etc. complete as directed by Engineer-in-charge. (Only GI Pipe will be free issued by BHEL and necessary fittings are in contractor scope ).	Rmt	1310.00	361.63	473,735.30
6	Labour charges for laying of 50 mm nominal bore GI Pipe medium grade properties and weight as per IS 1239, ISI marked with GI fittings, ,cost of fittings,Specials like bends,tees, elbows..etc, labour charges, testing, carriage of pipe from stores etc. complete as directed by Engineer-in-charge. (Only GI Pipe will be free issued by BHEL and necessary fittings are in contractor scope ).	RM	2000.00	156.01	312,020.00
7	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth. 1.5 m in width as well as 10 Sqm on plan) including disposal of excavated earth,lead up to excavated earth,lead up to 50m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.	Cu.m	2000	135.17	270,340.00

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8	Filling available excavated earth (excluding rock) in trenches, plinth sides of founding each deposited layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, lead upto 50m and lift up to 1.5	Cu.M	500	87.57	43,785.00
9	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size) etc. complete as directed by Engineer-in-charge.(All the materials are under contractor scope only )	Cu.M	20	2723.3	54,466.00
10	Brick work with clay fly ash FPS brick of class designation 75 in super structure above plinth level upto floor five level in cement mortar 1:6 (1 cement : 6 Coarse sand) etc. complete as directed by Engineer-in-charge..(All the materials are under contractor scope only )	Cu.M	5.00	3086.49	15,432.45
11	Plastering in CM 1:6, 20 mm thick to internal and external surfaces of walls including the cost of all materials, labour, curing etc., complete -Upto 10.00 M level etc. complete as directed by Engineer-in-charge.(All the materials are under contractor scope only )	Sq.m	500	129.19	64,595.00
12	Labour charges for Fabrication & erection of support stands for bore well points and welding legs at uniform vertical intervals applying a priming coat of approved steel primer of as per the direction of Engineer In charge. ( steel is free issue from BHEL stores)	kgs	1200	13.24	15,888.00
13	Conducting geological survey /to identify ground water resources in all types of soils/ rocks including all incidentals and recommendations for most suitable points for drilling new bore wells.	Each	15	522.5	7,837.50
14	Dismantling brick masonry walls for all heights, removing and clearing the debris and carting away upto to lead of 2 KM including loading, unloading and spreading segregating useful materials as directed by Engineer-in-charge including the cost of all labour scaffolding etc. complete as directed by Engineer-in-charge.	Cu.m	10	592.10	5,921.00
15	Dismantling reinforced cement concrete / plain cement concrete and disposing of debris upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	Cu.m	10	1023.00	10,230.00
16	Dismantling stone rubble masonry manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 meters lead as per direction -in-charge - in cement mortar.	Cu.m	10	706.47	7,064.70
17	Supply & fixing of CI flanged and spigot tall pieces of 600 mm long and 250 mm dia and providing with 1 mm thick MS sheet dummy over tall pieces and fixing with cement concrete at new drilled bore wells etc. complete as directed by Engineer-in-charge.(All the materials with necessary fittings are in contracor scope only)	Each	15	1881.00	28,215.00
18	Supply and fixing of CI D/F sluice valves conforming to IS 14846/2000 of 80mm dia with amendments no. 1 & 2 heavy duty with CI Grade FG 260as per IS 210. Two coats of primer suitable for epoxy paints finished shall be applied to all metal surfaces and finally two coats of epoxy paint. The valves shall be tested for closed end test. Against hydrostatic test requirement . The rates are excluding transportation, central excise duty and sales tax etc.; the operation can be done with hand wheel/ Cap. ISI Marked etc. complete as directed by Engineer-in-charge.(All the materials with necessary fittings are in contracor scope only)	Each	15	3910.39	58,655.85

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19	Providing and fixing CI non- return valve of approved quality (screwed end) : 80 mm nominal bore -Horizontal .(All the materials with necessary fittings are in contracor scope only)	Each	15	3971.00	59,565.00
20	Providing and fixing CI non- return valve of approved quality (screwed end) : 150 mm nominal bore -Horizontal.(All the materials with necessary fittings are in contracor scope only)	Each	6	9117.63	54,705.78
21	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete--6" dia valves .(All the materials with necessary fittings are in contracor scope only)	Each	6	9399.78	56,398.68
22	Supply & laying of one number PVC insulated PVC sheathed steel wire/strip armoured multi stranded Aluminium conductor cable, 4-core 16 sq.mm. 1100V grade confirming to IS 1554, direct in ground including excavation, sand cushioning, protective covering (with shahabad stones) and refilling the trench etc. as required; complete all as directed by Engineer-in-charge.(All the materials with necessary fittings are in contracor scope only)	Metre	3000	243.49	730,470.00
23	Supply and making cable end termination with brass compression gland and aluminium lugs for 4 core - 16 sq. mm. PVC insulated and PVC sheathed/ XLPE aluminium conductor cable of 1.1 kV grade; complete all as directed by Engineer-in-charge.(All the materials with necessary fittings are in contracor scope only)	Each	15	196.46	2,946.90
24	Supply and fixing of control panel unit consisting of Automatic Star Delta starter (L&T make) with 13 - 24 A OLR, fuses, voltmeter, ammeter of suitable range etc. for submersible pumps all enclosed in 1.6mm thick CRCA sheet enclosure with hinged double door & mechanical locking etc; including fabrication, cost and conveyance of all materials and labour charges; complete all as directed by Engineer-in-charge.(All the materials with necessary fittings are in contracor scope only)	Each	15	15388.67	230,830.05
25	Supply & fixing of 40A, four pole, 415V isolator, complete with connections, testing & commissioning etc.; complete all as directed by Engineer-in-charge..(All the materials with necessary fittings are in contracor scope only)	Each	15	578.93	8,683.95
26	Supply & fixing of timer switch of L&T TSQ-100 or equivalent; complete all as directed by Engineer-in-charge.(All the materials with necessary fittings are in contracor scope only)	Each	15	3816.34	57,245.10

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27	<p>Supply and Erection of 3-phase Submersible Pumps:</p> <p><b>TECHNICAL SPECIFICATION:</b></p> <p>Pump Capacity : More than or equal to 15HP.</p> <p>Head Range: More than or equal to 260 Meters.</p> <p>Discharge Capacity: more than or equal to 120 LPM.</p> <p>No. of Stages: More than or equal to 30.</p> <p>Insulation: B Class or above.</p> <p>Type of cooling: water Filled.</p> <p>Protection: IP 68.</p> <p><b>MATERIAL of CONSTRUCTION:</b></p> <p>Impeller: Stainless Steel.</p> <p>Diffuser: Cast Iron / SS</p> <p>Bowl / Stage Casing: Cast Iron.</p> <p>Pump Shaft: Stainless Steel.</p> <p>Motor Housing: Stainless Steel.</p> <p>Motor Shaft: Stainless Steel.</p> <p>Finished Rotor: Copper.</p> <p>NRV: Cast Iron.</p> <p>Suction: Cast Iron.</p> <p>Pump / Motor Bushes: NBR / LTB</p> <p>Thrust Bearing: Carbon+SS</p> <p>Make: Lubi / Kirloskar / Crompton Greaves / CRI Pumps / KSB pumps; all complete as directed by Engineer - in - charge (All the</p>	Each	4	45276.00	181,104.00
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28	Supply and Erection of 3-Phase Submersible Pumps:  TECHNICAL SPECIFICATION: Pump capacity: More than or equal to 10HP. Head Range: More than or equal to 175 Meters. Dishcharge Capacity: More than or equal to 120 LPM. No. of Stages: More than or equal to 20. Insulation: B class or above. Type of cooling: Water Filled. Protection: IP 68.  MATERIAL OF CONSTRUCTION: Impeller: Stainless Steel. Diffuser: Cast Iron / SS. Bowl / Stage Casing: Cast Iron. Pump Shaft: Stainless Steel. Finished Rotor: Copper. NRV: Cast Iron. Suction: Cast Iron. Pump / Motor Bushes: NBR / LTB. Thrust Bearing: Carbon + SS Make: Lubi / Kirloskar / Crompton Greaves / CRI Pumps / KSB pumps; all complete as directed by Engineer-in-charge (All the materials are in the agency scope including necessary fittings, no	Each	11	36925.08	406,175.88
29	Supply & connecting of 1.1 kV grade 3-core, 4.0 sq.mm. PVC insulated PVC outer sheathed flat flexible copper conductor cable conforming to IS 694/1990 (make : L&T / FINOLEX) for submersible pump motors including all incidental charges; complete as directed by Engineer-in-charge.(All the materials with necessary fittings are in contracor scope only)	Metre	5100	97.19	495,669.00
30	Providing of Earthing (as per IS:3043) with GI earth plate 600mm x 600mm x 6mm thick including accessories, and providing masonry enclosure on top (RCC/brick chamber) with MS cover plate having locking arrangement and watering pipe of 2.7 metre long etc. including supply & filling with alternate layers of charcoal / coke and salt as required; complete in all respect as directed by Engineer-in-charge.(All the materials with necessary fittings are in contracor scope only)	Each	15	11495.00	172,425.00
31	Providing, laying and fixing 25mm x 6mm size hot dip G.I. strip on surface or in recess for earthing connections etc. as required; complete as directed by Engineer-in-charge.(All the materials with necessary fittings are in contracor scope only)	Metre	300	206.91	62,073.00
32	Providing and fixing enclosed type water meter (bulk type) confirming to IS:2373 and tested by municipal board complete with bolts, nuts, rubber insertions etc. a) 80mm dia nominal bore (All the materials with necessary fittings are in contracor scope only)	Nos.	15	2880.60	43,209.00
33	Supply of JCB with driver and disel	Hrs	50	750.00	37,500.00
<b>Total amount Rs.</b>					<b>9,000,486.76</b>

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<b>Notes:-</b>		
<b>Tender %</b>	<b>Percentage in words</b>	
<b>Excess</b>		
<b>Less</b>		
<b>Estimate</b>		
1	Agency has to quote his price by considering all the consolidated wages /Bonus payable to workers/ BHEL wages (which consists of state Govt. minimum wages and additional payments), allowances and other statutory dues payable to workers. BHEL will not reimburse any additional amount payable to contractor other than the agreed amount.	
2	Agency supervisor shall control the deployed manpower, Vehicles, etc.,	
3	Agency supervisor shall look after the working areas where the work has been carried out.	
4	The Agency supervisor shall do frequent checking.	
5	Controlling of Vehicles, Traffic, Drivers and deployed work force shall be monitored.	
6	Agency supervisor is the overall in-charge of the work. Single Point of Contact (SPOC) during the work.	
7	Agency supervisor is to ensure workers are posted in their respective posts as per the directions of BHEL officer in-charge and record to be submitted daily.	
8	To ensure all the communication given by BHEL officer is to be passed to the workers promptly.	
9	To ensure required guidance, training etc. is provided to the workers at their respective works beside the regular briefing etc.	
10	Custodian of the daily attendance	
11	Supervisor shall stay at the site until he total work is done and ensures the same for the workers too.	
12	Monitor the performance of the workers and their quality of service.	
13	Report of the daily work done shall be submitted daily with duly signed with stamp.	
14	Workers to alert and inform his superiors about any suspicious materials found during the work.	
15	Supervisor along with supporting workers, Drivers, Vehicles has to report to BHEL Officer in-charge and they have to follow the instructions given by the BHEL Officer in-charge.	
16	All group gathering by engaged work force / drunk & drive / accidents / group fighting / rash driving etc., has to be taken monitor by the Supervisor.	
17	Monitoring of Vehicles control in all required places and report to be submitted to officer.	
18	As per the time to time instructions given by the BHEL management, supervisor along with their staff has to work with the given instructions.	
19	During the execution of contract, if required, agency shall work on Sundays and holidays also as per the direction of Engineer-in-charge.	
20	Penalty as per the clause 2.1.36 shall be applicable.	
21	All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of <u>compliance of all statutory requirement, issued by IR section of HR department BHEL.</u>	
22	The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work.	
23	The security deposit will be released after satisfactory completion of the maintenance period and after getting I.R clearance and payment of final bill.	
24	As per the requirement and as per the instructions of Engineer- in-Charge, agency shall work on a holidays also, agency has to ensure the security and safety of the workers <u>during the work on any days.</u>	
25	The contractor shall maintain a logbook for record of deployment of vehicle and manpower on daily basis. The record shall be duly verified by the Engineer-in-charge.	
26	The contractor or his authorized representative shall report to Engineer - In charge of the civil maintenance at 8 am daily along with vehicles including helpers and with supervisors for their movement to execute the work as per instruction of Engineer-in-Charge.	
27	Daily record shall be maintained of all works performed under this contract. The work done shall be entered in the register duly signed and dated by both parties viz representative of Engineer Incharge and the contractor or his authorized representative each day on completion of work.	

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28	The vehicle must be in good running condition fulfilling all RTO Compliances with necessary valid documents / permissions / permits. The contractor shall also submit fitness certificate of the vehicles in this regard. The Driver shall have valid licence and also should carry the original license, it shall be produced as and when required by the BHEL authorities.
29	Contract period is 06 (six) months. Maintenance period is 12 (Twelve) months. The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill
30	GI pipes and Structural steel are only free issue materials from BHEL store. Agency has to collect the materials from the BHEL stores. No separate charges will be given for shifting of materials. All the materials as per the schedule and its necessary fittings are in agency scope only, no separate charges will be given for fittings.
31	A penalty of 0.5% of the gross value of the work will be levied for every weeks delay in work subject to a maximum penalty of 10% of the gross value of executed work, BHEL reserves the right to cancel the contract and get this job carried out from any other agency(s) in open market. In case the rate of the other agency is higher than the rate quoted by the agency the
32	Agency has to use river coarse sand only, Penalty of 20% of the item rate shall be deducted for the respective item if any other form of sand is used
33	All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirement, issued by IR section of HR department BHEL.
34	The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work.
35	All the terms & conditions of the contract with respect to Taxes & Duties are subject to the new taxation laws introduced from time to time (e.g., GST). The terms & conditions will be modified in accordance with the provisions of new laws (e.g., GST)
36	Any clarifications / queries for submitting the price bid may please contact Land line: 040 - 2318 3585 / 2232.