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Tender Inviting Authority: Dean (Admin)

Name of Work: Construction of One Number Tube Well, Installation of Submersible Pump, making Connection to Storage Tank, including Testing and Commissioning of the Entire System at IPR Campus, Bhat, Gandhinagar.

Contract No: IPR/TN/CIVIL-PR/02/2022

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| Name of the Bidder/ Bidding Firm / Company : | |
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PRICE SCHEDULE

(DOMESTIC TENDERS - RATES ARE TO GIVEN IN RUPEES (INR) ONLY)

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

"Note:-

- The items of the work as mention below are to be carried out as per the details mentioned in CPWD Specification 2019 (Volumn -I and II).
- In case of non-availability of detailed specification in CPWD 2019, Specification of the same shall be executed as per clauses mentioned in GCC and / or as directed by Engineer-In-Charge, whose decision shall be final. No extra shall be payable for execution of items as mentioned in Schedule of Quantities as a result of adopting detailed specification or India Standard of relevant or Other Standards thereon.
- All respective items should be as per the Preferred make / brands / list attached in Technical Bid.

| NUMBER # | TEXT # | TEXT # | NUMBER # | TEXT # | NUMBER # | NUMBER # | TEXT # |
|----------|--|------------------|----------|--------|--|---|-----------------------|
| Sl. No. | Item Description | Item Code / Make | Quantity | Units | RATE In Figures To be entered by the Bidder in Rs. P including GST & all taxes | TOTAL AMOUNT Including GST & all Taxes in Rs. P | TOTAL AMOUNT In Words |
| 1 | 2 | 3 | 4 | 5 | 7 | 14 | 15 |
| 1 | <p>Conducting / arranging Geo-hydrological/Geo-physical ground water investigation survey in IPR campus, Bhat,Gandhinagar through Government local bodies like Central Water Commission, Gujarat Water Supply & Sewage Board or any State/Central Ground Water Boards for location of bore well with four alternative locations of various yields. The report from the concerned department shall be submitted to Engineer-in-charge. Based on the report, The contractor should give the proposal for appropriate location which shall be approved by the Engineer-In-Charge.</p> <p>Note: All expenses involved for getting done the Geo-hydrological/Geo-physical ground water investigation survey through local body including inspection fees, fees for submission of applications and other incidental charges, if any, as required by the local bodies at various stages are to be borne by the contractor.</p> | item1 | 1 | JOB | | 0.00 | INR Zero Only |

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| 2 | Boring/drilling and reaming of bore well of dia of 450 mm and depth up to 300 Meter from NGL in all type of soil starta for installation of casing/ strainer pipe, by suitable method prescribed in relavent IS standard including collecting soil samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge. | item2 | 250.00 | RMT | | 0.00 | INR Zero Only |
| 3 | Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/plain ended casing pipes of 200mm nominal size dia having minimum wall thickness 5.40mm , conforming to IS 3589 of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, as per relavant IS , including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge. Note: The pipe shall be of TATA/JINDAL/ESSAR make. The work also inclusive the cost of welding charges and welding rod of approved IS code required for complete execution of the work mentioned in the Item. | item3 | 200.00 | RMT | | 0.00 | INR Zero Only |
| 4 | Supplying 200mm dia Low carbon galvanized screen Heavy Grade pipe (thickness as per IS 8110) and specials with "V" wire screen of 1.5 mm size Johnson /Apollo make all as per the manufacture's specification and as per the direction of Engineer-in-charge. Note: 1.The contractor has to do necessary arrangement for making the connection of the Low carbon galvanized screen pipe with other Casing pipe mentioned elsewhere in this tender. 2. The Rate should be inclusive of all the materials, tools & tackles required for the connection. | item4 | 50.00 | RMT | | 0.00 | INR Zero Only |
| 5 | Supply and installation of bore materials such as Shanku/End Cap, Chapala, Casing Clamp, Coupling,band,Well/Bore Cap,Nut Bolt, all required bore well accessories etc., as may be required including welding all as per the direction of EIC etc., complete. | item5 | 1.00 | JOB | | 0.00 | INR Zero Only |
| 6 | Gravel packing in tube well construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge. The Gravel should be Pea gravel which is used in bore well gravel packing works. | item6 | 41.46 | CUM | | 0.00 | INR Zero Only |
| 7 | Carrying out Electro logging test through reputed and approved agency as directed by EIC and furnishing Bore section details along with results & report on installation of blank and screen pipe. | item7 | 1.00 | JOB | | 0.00 | INR Zero Only |

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| 8 | Bore development by compressor including development of each water bearing Zone which may come across up to depth of tube well by lowering Necessary requires diameter Dropline/Airline required for each zone with air compressor capacity 900 CFM/200 PSI for minimum of 4 hours or up to availability of sand free water discharge. | item8 | 1.00 | JOB | | 0.00 | INR Zero Only |
| 9 | Cement sealing the annular space between casing pipe and bore hole as per the requirement of Electro logging report by means of mud pump (including Pan required for pumping of cement slurry if required) using cement of approved quality as per the direction of EIC. Note: 1. The quoted rate shall be exclusive of Supplying and stacking cement (OPC) of approved make conforming to IS all as per the direction of Engineer-in-charge. The same shall be paid elsewhere in the respective Item of this tender. | item9 | 1.00 | JOB | | 0.00 | INR Zero Only |
| 10 | Supplying and stacking cement (OPC) of approved make conforming to IS all as per the direction of Engineer-in-charge. | item10 | 1.00 | Tonne | | 0.00 | INR Zero Only |
| 11 | Water testing charges for conducting all mandatory tests and analysis of water samples of bore wells in NABL approved laboratory and furnishing results and reports including collecting and conveying. Water should be tested for all the mandatory physical, chemical and bacteriological tests from the approved NABL laboratory. The list of tests to be carried out on water sample. Chemical tests: 1. P.H Value 2.T.D.S 3. Total Hardness 4. Carbonate 5. Calcium 6. Magnesium 7. Copper 8. Iron 9. Chloride 10. Sulphate 11. Fluoride 12. Alkalinity of M.O Bacteriological tests: 1. E-coli 2. Salmolenna 3. Total bacteria count Note : These tests are indicative and not exhaustive. Contractor has to get the water samples tested for all mandatory tests as specified in relevant IS codes for consumption of water for drinking purpose. | item11 | 1.00 | JOB | | 0.00 | INR Zero Only |
| 12 | Drilled mud handling charges including excavation of mud pit and back filling , to make good ground to original condition etc. of necessary pits including necessary T & P etc. complete. Note: The work also include the arrangement of mud tanker/Water Tanker if required for the execution of the work. | item12 | 1.00 | JOB | | 0.00 | INR Zero Only |

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| 13 | <p>Providing, laying and jointing "Super heavy" grade Astral OR Asirvad unplasticized PVC column pipes of 65mm NB/(75mm OD) dia conforming to IS:4985 with all accessories and specials of working pressure suitable for super heavy grade unplasticized PVC pipes including cost of necessary jointing materials,etc. complete all as per specifications or as directed by the Engineer-In-Charge.</p> <p>The rate to include all accessories required for installation. No extra will be paid for these accessories.</p> <p>Note: The contractor should ensure pre measurement of pipe from the Engineer-in-Charge. Any depth/length without pre-measurements will not be considered.</p> | item13 | 150.00 | RMT | | 0.00 | INR Zero Only |
| 14 | <p>Providing, laying and jointing 65mm dia Schedule 80 pipe of Astral or Ashirvad and specials of suitable working pressure including cost of necessary jointing materials, labour for excavation of trenches, testing, refilling etc. complete all as per specifications.</p> <p>Note:</p> <p>1. The cost is also inclusive of necessary tools and tackles and specials required for the connection from the column pipe to existing line of HDPE/G.I./PVC, including required specials like, flange, union, coupler, reducer, expander etc, complete in all respect as required for the making leak proof connection.</p> <p>2. The contractor should ensure pre measurement of pipe to be used from the Engineer-in-Charge. Any depth/length without pre-measurements will not be considered.</p> | item14 | 30.00 | RMT | | 0.00 | INR Zero Only |
| 15 | <p>Supplying, installing, commissioning and testing of Electrically driven submersible pump of , 20HP 15 stage , 415 V AC three phase motor suitable for 200mm dia bore well to be fixed at depth around 130 to 145 meter and connecting to column pipes of 65mm NB/(75mm OD) dia with all necessary fittings & specials required, including the cost of lowering the pump set with motor in bore well etc., complete all as per manufacture's specification or as directed by the Engineer-In-Charge.</p> <p>Note: 1. The KSB/CRI/PLUGA make of submersible pump is to be installed.</p> <p>2.The Contractor has to make necessary arrangement to fix the submersible pump at desired location as per manufacture's specification or as directed by the EIC.</p> | item15 | 1.00 | SET | | 0.00 | INR Zero Only |
| 16 | <p>Supplying, installing & connecting & terminating on site suitable flat PVC insulated & over all PVC Sheathed, flexible FR 1.1KV Grade copper conductor 3 core 6 sqmm colour coded confirming to IS 694:1990 tied at suitable distance as instructed by the Engineer-In-Charge.</p> <p>Note: The actual length of the cable shall be measured by contractor at site.</p> | item16 | 350.00 | RMT | | 0.00 | INR Zero Only |

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| 17 | <p>Supply, installation, testing and commissioning of Out Door type weather proof free standing cubicle type, front operated soft starter Panel fully automatic star delta starter panel for pump suitable for operating on 415 Volts, 3phase, 4 wires, 50 Hz A.C. supply system. The Starter Panel shall be made of 14 SWG CRCA sheets having under gone 7 tank metal treatment process with duly painted with powder coating, of approved shade.</p> <p>Construction including Chemical earthing with supply, fabrication & Installation of angle iron (size not less than 32 mm X 6 mm thick) stand 800mm/1500mm height to installed panel partly in ground and partly above ground level including Pedestal for mounting the panel.</p> <p>Note :-1. The Panel shall be double door with locking arrangement and canopy on top to shield from rain.</p> <p>Incoming: - 63A 4P MCB, 10KA motorised duty Breaking capacity – 01 No.</p> <p>Outgoing:- 32 A, 3 Pole power contactors (3 nos) with required NO – NC contacts</p> <ul style="list-style-type: none"> • Auxiliary power contactors, if any • Suitable Thermal Overload Relay • Suitable approved make Electronic Digital Timer • Single phasing preventer • Cluster LED type indicating lamps for r R, Y, B fault indication (O/L trip, Single phasing, etc..) • Water level guard with necessary wires for dropping of probe along with submersible pump • Internal power wiring shall be done using 6 sqmm flexible Cu wires only • Terminal Connectors <p>Metering</p> <p>i) Multi Function Meter of accuracy class-I with 3 nos 63 / 5amps 15VA CTs and MCBs to measure and display the following electrical quantities – 01 Set.</p> <p>a) ON Hours / RUN Hours</p> <p>b) Total active energy (KWH / MWH)</p> <p>c) Instantaneous power factor</p> <p>d) Current</p> <p>e) Voltage</p> <p>f) Frequency</p> <p>NOTE : Starter panel drawing like General Arrangement drg., control wiring drg., power wiring drg. and bill of materials shall be got approval from Engineer-in-Charge before Fabrication of panel.</p> | item17 | 1.00 | SET | | 0.00 | INR Zero Only |
| 18 | <p>Supply and Packing of Clay Balls in tube well construction in required sizes at various level & depth as per Electro logging Test or as directed by the Engineer-In-Charge.</p> <p>Note:</p> <p>1.The quoted rate shall be inclusive of all Mapower,machinery, tools & tackles required to complete execution of the work mentioned in the Item.</p> <p>2.Contractors has to submit the Weigh Slip for the quantity of material used at site.</p> | item18 | 5.00 | Tonne | | 0.00 | INR Zero Only |
| 19 | <p>Removal of Existing Submersible Pump from the non working bore including the removal of column pipe up to the depth of submersible pump, Electrical Cable etc.,& Filling of the bore hole with clay ball, sand, soil as required for the complete sealing of the bore,The Cement concrete otta of 0.6m x 0.6m x 1.0m shall be casted on the top of the filled bore.</p> <p>Note: 1. The approximately depth of the installed submersible pump is about 116meter.</p> <p>2. The Contractor may check the feasibility for the removal Submersible pump & column pipes up to the depth of installed submersible pump.The quoted rate should be inclusive of the same.</p> <p>3. The payment will be made only after successful execution of the complete item.</p> | item19 | 1.00 | JOB | | 0.00 | INR Zero Only |
| Total in Figures | | | | | | 0.00 | INR Zero Only |
| Quoted Rate in Words | | INR Zero Only | | | | | |