

CONTRACT NO.

GUJARAT WATER SUPPLY & SEWERAGE BOARD GANDHINAGAR

(GOVERNMENT OF GUJARAT UNDERTAKING)



Bid documents for " Lifting & lowering of pumping machineries for newly drilled tube wells & fishing out stuck pumping machineries, cleaning of Tubewells by sand barrel System, loading, unloading, carting of various store materials and supply of MS Clamp for different talukas under jurisdiction of works division, Bhuj & Nakhatrana talukas for 02 years under M&R to Banni RWSS in Kutch district on as and when required basis."

Estimated Cost : Rs. 671199.00

**EXECUTIVE ENGINEER
P.H.MECHANICAL DIVISION,
Bhuj – KUTCH**

Name of Work-Lifting & lowering of pumping machineries for newly drilled tube wells & fishing out stuck pumping machineries, cleaning of Tubewells by sand barrel System, loading, unloading, carting of various store materials and supply of MS Clamp for different talukas under jurisdiction of works division, Bhuj & Nakhatrana talukas for 02 years under M&R to Banni RWSS in Kutch district on as and when required basis.

TECHNICAL SPECIFICATIONS

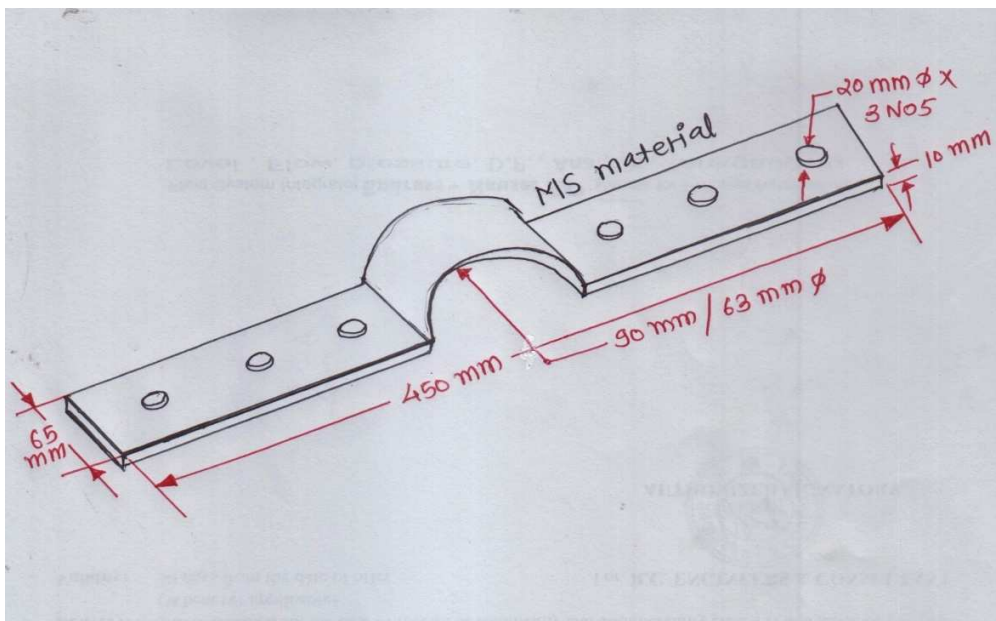
ITEM No.1&2:- Lifting/ lowering of Submersible pump sets

- Rate shall be inclusive of Loading, carting & unloading charges etc. complete.
- Lowering/ lifting of Submersible Motor pump-set shall be carried out by means of pipe wrenches and chain pulley block. Delivery out let connection shall be made by fitting nipple provided on HDPE/ MS column pipe.
- Submersible motor pump-set shall be coupled suitably, fixing of strainer and filling of water (Priming) shall be carried out properly. The motor pump set shall be checked properly prior to lower the same in tube well. The Pumpset lowered in such a way that all the loads are to be taken by Polypropylene ropes, not onto HDPE pipe.
- The contractor shall make his own arrangement for safe lowering of submersible pump set with all accessories by means of proper chain pulley block, pipe wrenches, tools & tackles with required men power etc. Prior to lower the submersible pump set the contractor shall make cable joint with sleeves, patch roll etc. with proper insulation to the cable joint. The motor of the pump set shall be filled with fresh & sweet water. The pump set should be lowered safely in such a way that the tools & tackles can carry the entire load of pump set & pipe assembly filled with water.
- The contractor shall be responsible for and shall pay the expenses of providing medical aid to any workmen who may suffer a bodily injury as a result of an accident. If such expenses are incurred by department, the same shall be recoverable from final Bill of the contractor.
- Flat PVC cable joint shall have to be made properly with sleeves and insulation tape so as water proof joint is made.
- After lowering work is completed, cable connections of lead cable to PCC panel shall be made as per requirement. Cable connections to wooden panel board and/or KIT KAT fuses whenever required shall also made by the contractor.
- Proper testing of submersible motor Pumpset shall be taken after installation work.
- Payment shall be made as per no. of job work and depth of lowering of Pumpset inside tube wells carried out by the contractor.

- The contractor shall make his own arrangement for safe lifting of all the items or lifting of submersible pump set at different tube well sites. Lifting of submersible pump set with all accessories such as column pipes/HDPE pipes, cable, PP rope etc. by means of proper chain pulley block, pipe wrenches, tools & tackles with required men power etc. While lifting the pump set with all accessories safety precaution shall be taken for safe handling of pumping machinery and men power etc. The pipes lifted from the tube well shall be staked chronologically at site after due checking of pipes & their threads.

ITEM No.3:- Providing & Supplying of MS Clamp

- Manufacturing, Providing and supplying M S Clamp made from MS plate with three holes on either side with nuts & bolts of Std. make and suitable size. 450 mm X 65 mm X 10 mm for 90 mm HDPE & 63 mm dia. pipe. The M.S clamp should be prepared from good quality M.S. Flat of suitable size and thickness as mentioned above suitable for outer dia. Of 90 mm & 63 mm dia HDPE pipe. The Clamp should be provided with three (3) holes of 20 mm diameter on either side with M.S. Bolts & Nuts of standard make.



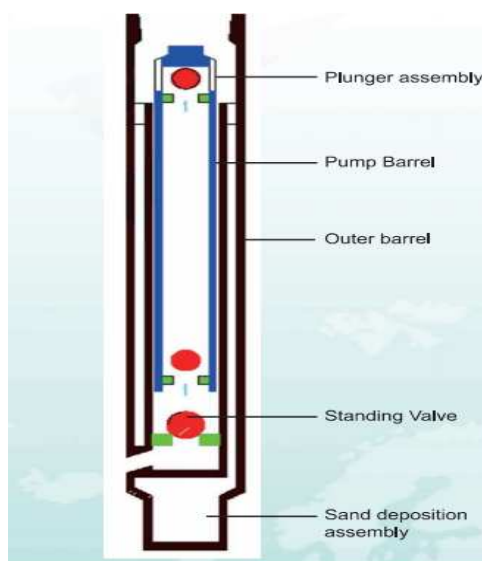
- There should be no burr on holes or any side of M.S.Clamp.
- The payment shall be made per set of M.S.Clamp.
- M.S.Bolts (of respective hole size) hexagonal head round neck with hexagonal nuts with washers shall be supplied with MS Clamp.Clamp without Nut-Bolts are not acceptable by department & payment for such a set is not payable to contractor.
- Agency must supply MS clamp within 3 months of Supply of W.O.

ITEM No.4:- Supply of MS specials like Tee, Bend, Reducer, Flange, Nut bolt, Nipples etc

- All pipes, fittings, bolts, nuts, tee, bents ,reducers etc MS materials be required for execution of the works shall supply with the specifications and directives of the department. Carbon content & other chemical properties shall be within specified limits of governing IS.
- Payment shall be made based on actual supply of MS Specials (as and when required).

ITEM-05 (A) & (B): Charges for attending existing bore well And Bore hole cleaning.

- Contractor shall be responsible for Charges for attending existing bore well and taking necessary measurement & giving opinion for the depth & kind of filling materials and open about cleaning of bore hole for cleaning of with necessary tools & tackels (without lifting & lowering pump) minimum charge within 50 km shall be paid Lumpsum.
- Payment will be made per Job.
- The work of Cleaning of bore hole by sand barrel system including removing foreign materials, sand, clay, pebbles etc. with necessary tools, plants and accessories; shall be performed by contractor in well condition and manner by all means.
- Due to ground water carries lots of foreign material along with water as sand, clay, Pebbles etc., after prolong use of deep, there may be reduction of discharge from tubewell. sand can really bring a lot harms on our equipment, pumping efficiency and operation time. Hence it is required to flush out such foreign matter from Tubewell. Sand barrel method is the most common application to remove foreign materials like sand, clamp, pebbles etc with necessary tools, plants & accessories.
- Sand Barrel method uses Down Hole Plunger type valve as shown below;



Characteristics:

- With locking device at bottom, the barrel will not be extended due to the action of liquid column, and the clearance will not increase. So it's more suitable for deep wells;
- A valve blocking device is added to prevent the sand from falling back into barrel, resulting in sand stuck for plunger;
- The sand scraping assembly on the plunger can clean the sand on the inner wall of barrel, then the sand is discharged by liquid flow.
- All the Foreign materials like Sand, pebbles, clay etc. present in the Deep tubewell must be flushed out from the well until Sand free discharge and maximum discharge is obtained from tubewell.
- Agency must provide photos along with latitude, longitude along with bill documents.

ITEM No:06 HIRING OF HYDRA :

- The rates include driver and fuel charges. No extra payment is made to driver/ agency for fueling.
- The work to be executed as per instructions of Engineer-in-charge/ DEE as per pickup and dropping station of materials.
- During lifting-lowering of material, safe handling of material is required without any kind of damage to properties of GWSSB. In case of mishandling/ damage to material, agency is responsible.
- Hiring of hydra can be in all five talukas of Kutch district under works division-bhuj& Nakhatrana.
- During journey any damage to vehicle or repairing or accidental damage to man power is responsibility of agency. Any damage during given work leads to penalty as compensation.
- Payment is made hours in a day for a hydra/JCB in a Day. Agency must provide logbook for particular hydra during submission of bill.

ITEM No -07 &ITEM No -08 :Fishing Out of Stuck/ Fallen Pumping Machinery

- If There is any Problem Of Pumping Machinery pipes / cable etc. stuck/Trapped /Fallen in bore hole then contractor have to fishing out submersible pump set fallen in tube well of size 150 mm / 200 mm / 250 /300 mm dia. including carting of required materials, fixtures for fishing to site of work including carting charges of the fished out submersible pump set and accessories to the respective departmental store including loading and unloading of pumping machinery by special technique with special tools / fixtures by agency by all means.
- During execution of this item, if recording camera required, agency must provide it during execution. No extra payment shall be made for items.

- Payment shall be made as per item executed based on job work as & when required.

ITEM No -09 :Supplyof labour

- The item is for loading, unloading of various heavy store materials from store to vehicle, vehicle to store, unloading at various sites, stacking of pumpmotor set, panels, cables etc store items, cleaning of store etc. as per instructions of EIC.
- The payment shall be made as per daily wages& number of labor basis.
- All the expenditure related to labour must be borne by agency. The rates in tender includes all to-from transportation for labours. No extra payment shall be made for aforesaid work.
- Any accidental damage to man power is a responsibility of agency. All accidental damage / health related issues must be in scope of contractor.
- Contractor must provide manpower as & when required as per instructions of EIC.

Signature of contractor

**Executive Engineer
P. H. Mech. Division
Bhuj**