

GUJARAT WATER SUPPLY AND SEWERAGE BOARD

GANDHINAGAR



BID DOCUMENTS For Work of Drilling 200 and 250 mm dia. up to/ Above 300 meters (Total 12 numbers) deep tube wells by DR / RR drilling rig at various villages in **Vadgam, Palanpur, Dhanera & Dantiwada talukas (Group A)** of **Banaskantha** district including supply of various type of MS bore materials & slotting work of MS ERW pipes.

**Executive Engineer
P. H. Mechanical Division
Palanpur**



**GUJARAT WATER SUPPLY AND SEWERAGE BOARD
GANDHINAGAR**

EXECUTIVE ENGINEER, PUBLIC HEALTH MECHANICAL DIVISION, Palanpur

Bid Documents For work of Drilling 200 and 250 mm dia. up to/Above 300 meters (Total 12 numbers) deep tube wells by DR / RR drilling rig at various villages in **Vadgam, Palanpur, Dhanera & Dantiwada talukas (Group A)** of **Banaskantha** district including supply of various type of MS bore materials & slotting work of MS ERW pipes.

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BID DATA SHEET

For tender and the work details queries, please contact following officers:

Sr. No	Name of Officer	Designation and Address	Contact Nos.
1	Shri M.P.Nai	Executive Engineer, P. H. Mechanical Division, II Floor, Jal Bhavan, Palanpur-385001.	Mobile:9978406930
2	Shri K.M. Chaudhari	Superintending Engineer, Public Health Mechanical Circle, III Floor, Jal Bhavan, Behind Town Hall, Ellis Bridge, Ahmedabad 380 006.	Fax: (079) 26575624 Mobile: 9978406799



MILESTONE DATES

Gujarat Water Supply & Sewerage Board

TENDER NOTICE NUMBER: of 02 of 2026-27

GWSSB invites Online bids for work of Drilling 200 and 250 mm dia. up to 300 meters (Total 12 numbers) deep tube wells by DR / RR drilling rig at various villages in Vadgam, Palanpur, Dhanera & Dantiwada talukas (Group A) of Banaskantha district including supply of various type of MS bore materials & slotting work of MS ERW pipes.

(A) Details of Tender Item:

Sr. No.	Name of Work	Estimated Value in Rs.	EMD In Rs.	Tender fee In Rs.	Period of completion of Work
1.	2.	3	4		6
1.	Tender for Drilling 200 and 250 mm dia. up 300 meters (Total 12 numbers) deep tube wells by DR / RR drilling rig at various villages in Vadgam, Palanpur, Dhanera & Dantiwada talukas (Group A) of Banaskantha district including supply of various types of MS bore materials & slotting work of MS ERW pipes.	7869450.00	78700.00	2400.00	12 Months

(B) Schedule for e-tendering is fixed as under:

(i)	Site Visit (If any)	No Visit
ii)	Pre-bid Conference	No Pre Bid
(iii)	Bid documents Downloading Start date	22.06.2026 Onwards
(iv)	Bid documents Downloading End date	Up to date 09.07.2026 up to 18.00 hrs
(v)	Physical submission of Tender Fee, Earnest Money Deposit and P.Q. supporting documents.	Instruments of tender fee & EMD shall be submitted in electronic format only through online (By scanning) while uploading the bid. The submission shall mean that tender fee and EMD are received for purpose of



opening the bid. Accordingly offer of those shall be opened whose tender fee and EMD is received electronically. However, for the purpose of realization of instruments of tender fee and EMD, bidder shall send the same in original through RPAD / Speed Post / Courier / Hand Delivery so as to reach to the office of the Executive Engineer, Public Health Mechanical Division, Jal Bhavan, Palanpur-385001 up to **date 16.07.2026** till 15.00 hrs. For not submitting the DD / FDR in original bidder shall be debarred from participating in any tender of GWSSB for period of 3 years as a punitive action. All the documents in supporting of tender bid shall be submitted in electronic format only through online (By scanning). Hard copy will not be accepted separately.

Tender Fee (Document Fee):

Rs. 2400.00 (Rupees Two Thousand Four Hundred only) in form of demand draft in favor of Executive Engineer, Public Health Works Division, Palanpur payable at Palanpur. Demand draft shall be issued by any Nationalized banks or as per list mentioned in GR of Finance Department, GR of Finance Department, GR No. FD/MSM/efile/4/2025/2712/DMO of Date:01.04.2026 (Enclosed).

Earnest Money Deposit:

Rs.78700.00 (Rupees Seventy Eight Thousand Seven Hundred Only) in form of FDR in favour of Executive Engineer, Public Health Works Division, Palanpur and shall be valid for 180 days from the last date of submission of bid shall be issued by any Nationalized Banks or as per list mentioned in GR of Finance Department, GR No. FD/MSM/efile/4/2025/2712/DMO of Date:01.04.2026 (Enclosed).



(vi)	Online opening of Technical Bid	As per NIT
(vii)	Online opening of Price Bid	As per NIT

Eligibility: All bidders must furnish the following details in scanned format uploaded online with tender submission.

1. Certified copy of registration as D. R. / R. R. drilling contractor with GWSSB or valid registration as a civil contractor of class “D” Or Above in R & B or Irrigation Department, Government of Gujarat.
2. Affidavit in prescribed format duly notarized on Rs. **300.00** Non-Judicial Stamp Paper to be submitted online (Format is enclosed on last page of this volume).
3. PAN of Income Tax.
4. GST Registration Number.

Further Details of this tender are as under:

1.0	Particulars: Drilling 200 and 250 mm dia. up to/ Above 300 meters (Total 12 numbers) deep tube wells by DR / RR drilling rig at various villages in Vadgam, Palanpur, Dhanera & Dantiwada talukas (Group A) of Banaskantha district including supply of various types of MS bore materials & slotting work of MS ERW pipes.
2.0	Downloading Tender Document:
2.1	Bid documents will be available on web site.
2.2	Bidders wish to participate in this tender will have to register on web site https://gwssbtender.nprocure.com/
3.0	Digital Certificate:
3.1	Bidders who wish to participate in online tenders will have to procure / should have legally valid Digital Certificate (Class III) as per Information Technology Act-2000 using which they can sign their electronic bids. Bidders can procure the same from any of the license certifying Authority of India or can contact (n) code solutions- a division of GNFC Ltd, who are licensed



	Certifying Authority by Govt. of India.
3.2	All bids should be digitally signed, for details regarding digital signature certificate and related training involved in the below mentioned address should be contacted:
	(n)Code solutions A division of GNFC 301, GNFC Info Tower, Bodakdev, Ahmedabad 380054 (India), Telephone: +91 26857316/17/18 Fax: +9179 2685732, E-mail: nprocure@gnvfc.net Direct No: 079 30181689.
3.3	Bidders who already have a valid Digital certificate need not procure a new Digital certificate.
4.0	No pre-bid
5.0	Online Submission of Tech-bid & price bid.
5.1	Bidders can prepare & edit their offers number of times before tender submission's final date & time. After tender submission date & time, bidder cannot edit their offer submitted in any case. No written or online request in this regard shall be granted.
5.2	Bidder shall submit their offer i.e. Technical bid and Price Bid in Electronic format on above mentioned website & before final date of submission shown above after Digitally signing the same.
5.3	Offers submitted without digitally signed will not be accepted.
5.4	Offers (Price bid) in physical form will not be accepted in any case.
6.0 Submission of tender documents.	
6.1	Bidder shall have to scan all P. Q. Documents and other relevant tender documents properly along with tender fee & EMD instruments (for confirmation of EMD and Tender fee) & upload online along with the bid.
6.2	Bidder has to submit the documents as said in 6.1 above and no other condition in any form shall be considered at all at the time of evaluation of the tender i.e. The bidder shall have to submit unconditional offer without differing from any of the tender conditions.
7.0	Opening of Tender:
7.1	Bid documents will be opened on date & time shown above in the office of the Superintendent Engineer, P. H. Mechanical Circle, III Floor, Jal Bhavan, Ellis Bridge, Ahmedabad 380 006.
7.2	Intending bidders or their representatives who wish to remain present at GWSSB premises at the time of tender opening can do so.
7.3	The offline technical evaluation of the tenders received on or before last date of submission would be done and results will be displayed on website.

7.4	After successful completion of Technical Evaluation, price bid of only those bidders would be opened online, whose offers have been found to be substantially responsive.
8.0	Contacting Officer:
8.1	Further details / clarifications if any required will be available from following officers. Shri K.M.Chaudhari, Superintending Engineer (Mechanical), Ahmedabad.Phone No (079) 26575624 & Mobile: 9978406799 and Shri M.P.Nai, Executive Engineer (Mechanical), <u>Palanpur</u> . Mobile: 9978406930.
8.2	In case bidder needs any clarification / assistance or if training is required for participating inonline tender, they can contact at following office.
	(n)Code solutions A division of GNFC 301, GNFC Info tower, Bodakdev, Ahmedabad- 380 054 (India) Tel : +91 26857316/17/18 Fax: +91 79 26857321E-mail: nprocure@gnvfc.net Direct No: 079 30181689
9.0	General instructions:
9.1	The fees for online tender document will not be refunded under any circumstances.
9.2	EMD in the form specified in tender document only shall be accepted.
9.3	Conditional tenders shall not be accepted.
9.4	Bid shall be valid for 180 days from last date of submission.
9.5	This tender notice shall form a part of tender document.
9.6	The bidders are advised to read carefully the "Instruction for Bidder" and "Eligibility Criteria" contained in the tender documents.
9.7	The Internet site address for E-Tender is https://gwssb.nprocure.com and that of corporate web site is https://tender.nprocure.com/
9.8	Free training camp for bidders will be organized on every Saturday between 1.00 to 5.00 PM at (n) Code solutions, A division of GNFC , 301, GNFC Info Tower, Bodakdev, Ahmedabad 380 054 (India). Bidders are requested to take benefit of the same.



Gujarat Water Supply & Sewerage Board
Public Health Mechanical Division, Mehsana

GENERAL TERMS AND CONDITIONS

1. The entire work shall be assigned to L1 agency at the rates approved by the competent authority of GWSSB and the same shall be carried out on as and when required basis. The contractor shall have liberty to deploy as many drilling rig(s) of required capacity to carry out drilling & allied works within stipulated time limit. The contractor is not required to own such drilling rig(s) to carry out the work. However, such bidder(s) are advised to enter into Memorandum of Understanding (MOU) with drilling rig owner(s) for deployment of drilling rig(s) of required capacity in order to carry out the required work in stipulated time limit. In case of lowest approved bidder / Contractor (other than DR / RR drilling rig registered contractor), MOU in prescribed format with drilling rig owner(s) shall be furnished prior to entering into the agreement with GWSSB.
2. All registered civil contractors of (**"D" class or Above**) OR **GWSSB registered DR / RR drilling rig contractors** can bid for this as well as all other tenders of this (Banaskantha) as well as other districts. However any particular drilling contractor will be allotted maximum two tenders out of all the tenders of this i.e. Banaskantha district in spite of being the lowest bidder i.e. **L1** in more than two groups.
3. In such an event, if one particular contractor is found to be the lowest bidder in more than two tenders, such bidder(s) will be given a choice to select such two tenders / groups by the Superintending Engineer, P. H. Mechanical Circle, Ahmedabad. Such selection of tender(s) / group(s) shall be given in writing by the bidder(s) within maximum 03 working days from the date of letter issued by the Superintending Engineer, P. H. Mechanical Circle, Ahmedabad.
4. In case the lowest bidder is made to opt out of any one or more tender(s) / group(s) in respect of above point No. 2 & 3, the other bidder(s) in the chronological order will be entitled for award of such work(s) at the L1 rates or as per rates approved by the competent authority.
5. All the tools and plants such as rotary drilling machine, air compressor, pump test unit or such other suitable tools & plants required for drilling, developing of tube well, measuring yield etc. for the tube well shall be provided by the contractor at his own cost at the site of work.
6. Regarding verticality of the tube well, the condition for acceptance and payment is that the deviation up to 10 centimeters per 30 meters will be permitted in one plane and one direction only and no deduction in payment will be made.



If the deviation is beyond 10 centimeters, the tube well will be accepted with 10 % deduction from the payment of drilling charges provided (1) submersible pump of required capacity suitable to the drilled tube well in case of availability of power & functions satisfactorily and (2) turbine pump of required capacity suitable to the drilled tube well in case of non availability of power is lowered at required depth and runs satisfactorily.

If either submersible pump or turbine pump of required capacity and size cannot be lowered in the drilled tube well and does not run satisfactorily, the tube well will be rejected and no payment will be made.

7. The contractor shall collect the samples of different strata encountered while drilling the pilot bore at different levels preferably at every two meters but not more than 3 meters or at shorter interval if strata changes and such samples with necessary depth and samplebags / strata box shall be submitted to the Hydrologist.
8. The Hydrologist / Geologist shall verify the strata samples and the decision will be binding to the contractor.
9. If further drilling cannot be done due to encountering the hard formation or by blue sticky clay or shale, the decision taken by the Hydrologist / Geohydrologist regarding the formation will be binding to the contractor.
10. The contractor will have to wait for 24 hours for pilot borehole to be electrically logged. After 24 hours the contractor can continue further work as per instructions of the EIC / Hydrologist. Utmost care is to be taken by the contractor regarding finishing of borehole prior to lowering of probe (sonde) for logging. If sonde / probe gets stuck in the borehole, all required efforts shall have to put in by the contractor to ensure withdrawal / removal of the probe from borehole. If sonde / probe is lost due to negligence or error of the contractor (as certified by the Logging Operating Hydrologist / Geologist in consultation with the concerned Executive Engineer or his authorized representative), the cost of the probe / sonde etc. shall be recovered from the contractor. Decision of the committee of the Superintending Engineer, Superintending Geohydrologist / Geohydrologist & concerned Executive Engineer (Mechanical) shall be final & binding to the contractor.
11. Compressor test will have to be carried out till the water becomes sand free as per detailed specifications. The decision of the EIC / Hydrologist will be final and binding to the contractor in this regard.
12. The contractor will not be held responsible for chemical failure of the tube well. For mechanical failure, defective cement sealing of tube well, and defective welding of joints, the contractor will be held responsible for losses to the Board.

13. The contractor will not be held responsible for the quantity of water met with during initial compressor development / yield of tube well , in case the work carried out is found satisfactory.
14. If the tube well is declared as failed, the contractor shall have to withdraw casing & screen / strainer pipes from the tube well(s) as per the instruction of the EIC at contractor's cost if failure is due to the fault of agency otherwise he will be paid as per prevailing schedule of rates of the department.
15. The contractor should preserve the records of strata met during drilling, lowered pipes, developed yield etc. and it should be submitted to the EIC.
16. In case of mechanical or geological hydrological failure of tube well due to any unforeseen / unexplained circumstances, the decision of the Superintending Engineer in consultation with Geohydrologist / Superintending Geohydrologist on report of field officer(s) shall be final and binding to the contractor.
17. The contractor should maintain all items at the site properly and be looked after by qualified representative with full authority to work on behalf of the contractor.
18. The contractor shall clear the site before starting the work and also after completion of the work by removal of excavates & mud etc. and also filling of mud pits and leveling of surrounding area which has been used. If the contractor fails to clear the site as required & as directed by EIC within maximum time limit the clause of liquidated damages shall be made applicable & requisite amount thereof shall be deducted from the bill(s) due to the contractor as per relevant clause of LD.
19. For depth of pilot borehole, reaming & final depth tube well to be drilled, the decision of the Geohydrologist / Hydrologist will be final depending on the geological & hydrological conditions of the particular area and data thereof.
20. Arrangement of fresh, clean potable water for drilling work should be done by contractor at his own cost. No extra payment for the same will be given by the department. The water used for drilling shall not have high dissolved solids (TDS) and TDS level shall not exceed 2000 ppm in any case) so as not to have negative effect on electrical logging results & subsequent interpretation.



21. If none of the contractors, who have offered their rates, are willing to carry out the work, the department will have full & complete liberty to get such works carried out through other contractors. Also in case if insufficient numbers of contractors are willing to carry out the work, this condition (liberty) will be operative to engage other contractors to cover up the outstanding and spill over work depending on actual need which will be established by the Superintending Engineer in consultation & on recommendation of the concerned Executive Engineer.
22. The approved rates will be applicable for a period of 12 months from the date of agreement with the competent authority of GWSSB.
23. MS bore materials, gravels, cement & clay balls in required quantities as per detailed technical specifications shall have to be supplied at site before commencement of pipe lowering. MS ERW blank pipes in required quantities shall be issued to the contractor by the concerned Deputy Executive Engineer on receipt of suggested & confirmed pipe assembly by the Hydrologist / Geohydrologist. Slotting work shall be carried out as suggested pipe assembly strictly as per detailed technical specifications. Pipes shall not be issued in advance to the contractor under any circumstances.

Further, Deputy Executive Engineer shall be at complete liberty to delay process of pipe lowering if above items viz. MS bore materials, gravels, cement & clay balls etc as per requirement & specifications are not made available at site by the contractor. Any resultant delay due to above will be sole responsibility of the contractor & EIC will not be held responsible in such event.
24. **Special condition :** As per direction given by the government the contractor should be registered with the GWRDC as Rig Contractor as per Government Resolution DMA/102010/330/pu. Va. Pu. ne. of date: 17/02/2011 attached herewith as Annexure and agency is bound to obey the safety measures mentioned in the same resolution during drilling operation and also after completion of drilling of tube well.
25. The stipulations and the detailed guide lines regarding safety measures before, during & after completion of tube well issued by the GOI / GOG/ Supreme Court of India or such bodies shall be automatically applicable & binding to the contractor and / or drilling rig owner(s) whose drilling rig is deployed. Any lapse in this regard / aspect full & complete responsibility shall lie with the contractor.

Signature of Contractor

Executive Engineer



**Gujarat Water Supply & Sewerage
Board Public Health Mechanical
Division, Mehsana**

COMMERCIAL TERMS AND CONDITIONS

1. The offers are invited from the civil contractor(s) with “ D ” class OR above valid registration of R & B or Irrigation Department , Government of Gujarat or DR / RR drilling rig contractors registered with GUJARAT WATER SUPPLY & SEWERAGE BOARD for these types of works.
2. Rates are invited through web site (E - tendering). Interested bidders can download tender documents from web site within stipulated time limit. Duly supporting documentary evidences shall have to be uploaded with the tender. As narrated in NIT, EMD and tender fees shall be submitted in proper form to Executive Engineer, Public Health Mechanical Division, II Floor, Jal Bhavan, Palanpur by RPAD / Speed Post / Courier or Hand Delivery within stipulated time limit. Bidders shall have to accept technical, commercial and general terms, conditions and specifications of tender document by signing digitally. **The price bid will be opened only after bidder(s) qualify as per qualification criteria.**
3. The tender fees in form of demand draft in favour of Executive Engineer , Public Health Works Division, Palanpur payable at Palanpur . Demand draft shall be issued by any Nationalized Banks or as per list mentioned in GR of Finance Department, GR No. FD/MSM/efile/4/2025/2712/DMO of Date:01.04.2026 (Enclosed)
4. **The EMD (Rs. 78700.00) should be paid in form of FDR in favour of Executive Engineer, Public Health Works Division, Palanpur and shall be valid for six months from the last date of submission of bid.** It shall be issued by any nationalized banks or as per list mentioned in GR of Finance Department, , GR No. FD/MSM/efile/4/2025/2712/DMO of Date:01.04.2026 (Enclosed)
5. No exemption from E. M. D. shall be given to any contractor on any account. Offer(s) without EMD shall be rejected outright.
6. Payment regarding the work carried out lesser or greater depth than the estimated depth i. e. the specified depth of schedule B will be made according to the CERTIFICATE given by the Hydrologist.
7. Conditional offers will not be accepted. The department will not give any advance payment against the tender award.
8. The rates quoted should include loading, unloading & carting of all materials from the designated departmental store(s) to site of work at his



cost. Materials not covered in the tender however necessary to ensure completion of work will have to be supplied by the contractor if asked by the department for which rates shall be paid as per provision of clause -14 of B-1 form.

9. The department will not issue exemption certificate for any Government levies.
10. **Tender Validity Period:** The tender offer shall be valid for period of 180 days from the last date of receipt of the tenders. Any tender for lesser validity for the date on which than the tender shall be out right rejected.
11. **Security Deposit :** Security deposit at 5 % of the estimated amount as per schedule B shall have to be paid by the bidder at the time of entering into agreement with the concerned Executive Engineer. This would be in the form of Demand Draft / FDR of nationalized / scheduled bank except co-operative. Remaining 5 % will be deducted from the running accounts bill (s) due to the contractor. Security deposit will be released after **six months** from the date of passing of final bill only after receipt of no due certificate from the concerned Deputy Executive Engineer (EIC) after site visit. Amount of security deposit shall be greater of these i. e. estimated amount & approved bid amount of allotted work.
12. **Tender Agreement :** The contractor(s) shall be required to enter in to agreement B 1 with the Executive Engineer for allotted work(s).

If the contractor (L1) does not enter into agreement including completion of all formalities with the concerned Executive Engineer within 10 days from the date of issue of LOI / approval, EMD shall be forfeited as per applicable rules of GWSSB.

Further in case of forfeiture of EMD, the concerned agency shall be debarred from participating in all tenders published by GWSSB for a period of three years.
13. **Quantum of Work:** Quantities specified in price bid (Schedule B) are estimated only. However work shall be executed depending on actual requirement on as & when required basis. The estimated quantities may vary depending on actual need. Contractor will not be entitled to receive any compensation in case of any decrease in estimated quantities. Likewise the contractor may have to execute excess quantities of any & all item(s) included in BOQ depending on actual requirement. In case quantities of any & all items exceeding estimated quantities are to be executed, payment shall be made as per approved rates. The approved rates shall prevail for minimum one year from the date of agreement and during currency of the contract in extended period if mutually consented for such extended time.

Further if the contractor does not complete the allotted work and refuses to carry out the contracted works during the currency of the contract, the department will have full liberty to terminate the contract prematurely and forfeit security deposit. Further in case of forfeiture of SD, the concerned agency shall be debarred from participating in all tenders published by GWSSB for a period of three years as well as registration as DR drilling contractor shall also be cancelled.

14. Excess over Tender Quantities, Extra Items and Variations

The contractor is bound to carry out any extra item(s) not included in this tender which are required to be carried out as per actual need & as directed by the EIC and as suggested by the Hydrologist. However, the payment to be considered for all such extra item(s) of work shall be as per prevailing SOR (Civil / Mechanical) of GWSSB. However the decision of competent authority as per DOP shall be final and binding to the contractor.

The Engineer-in-charge shall have power to make any alterations in or addition to the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work and the contractor shall be bound to carry out the work in accordance with any instructions in this connection which may be given to him in writing signed by the Engineer-in-charge and such alternation shall not invalidate the contract and any additional work which the contractor may be directed to do in the manner above specified as part of work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work and at the same rate as are specified in the tender for the main work.

(14.1) Except that when the quantity of any item exceeds the quantity as in the tender by more than 30 %, the contractor will be paid for the quantity in excess of 30 %, at the rate entered in the S.O.R of the year during which the excess in quantity is first executed or tender rate whichever is less and for the materials consumed in excess quantity the rate for the materials to be charge would be the basic rate taken into account for fixing the rate for the S.O.R. above instead of the rate stipulated in schedule-A.

(14.2) If the additional or altered work includes any class or work for work of which no rate is specified in this contract, then such class of work shall be carried out.

(i) At the rate derived from the item within the contract which is comparable to the one involving additional or altered class of work where there are more than one comparable items, the item of the contract which is nearest in comparison with regard to class or classes of the work involved, shall be selected and the decision of board shall be final and binding to the contractor.

(ii) If the rate cannot be derived in accordance with (i) above, such class of works shall be carried out at the rate entered in the Schedule of GWSSB for the year in which the tender was received, increased or decreased by the percentage by which the tender amount is more or less as compared to the amount arrived at the rates in the in "Schedule of Rates" of the Division in the year in which the



tender was received. If the Schedule of rates of GWSSB does not contain all the items, the percentage increase or decrease of the tender shall be calculated considering such items which were included in the "Schedule of Rates" of the Division for the year and for materials consumed on such item the rate to be charged would be the basic rate taken into account for fixing the rate in S.O.R. referred to above, instead of the rate stipulated in Schedule 'A'.

(iii) If it is not possible to arrive at the rate from (i) and (ii) above, such class or work shall be carried out at the rate decided by the competent authorities on the basis of detailed rate analysis after hearing the contractor before a Committee of two superintending Engineers stationed at the same place or the nearest place.

Time limit & Compensation for Delay: The contractor shall have to complete the allotted work(s) in all respects within the stipulated time limit which will be **10 days** for one tube well of depth **less than or equal to 150 meters**; **18 days** for one tube well depth **exceeding 150 meters but up to 300 meters** and **25 days** for one tube well of depth **exceeding 300 meters**. **The time limit shall start from the date of work order given in writing by the Deputy Executive Engineer for all individual bores**. The contractor is bound to carry out estimated quantities and Excess Quantities of work if required of work on as & when required basis during the currency of the contract which shall be maximum 01 year from the date of agreement.

15. The contractor can be asked to simultaneously deploy more than one drilling rig(s) of required capacity if asked to do so by the Executive Engineer (Mechanical), Palanpur in writing depending on urgency of work(s). However the supervision of all works will be sole & complete responsibility of the contractor which has entered into the agreement. The compensation for delay in work as liquidated damages will be recovered as per condition of printed B-1 tender form & relevant clause.
16. The contractor(s) shall have to complete estimated quantity of pilot drilling (irrespective of number of tube wells) as directed by Deputy Executive Engineer / Executive Engineer on as & when required basis in all respects within the stipulated time limit which is narrated in clause 15 above for individual bore of specified depth. The drilling contractor shall have to deploy drilling rig(s) of required capacity. Work shall be allotted on as & when required basis. The compensation for delay in work as liquidated damages will be recovered as per condition of printed B-1 tender form & relevant clause. In the event of decrease in the estimated quantity (ies) of all the items specified in the price schedule B, the contractor shall not be entitled to receive any extra compensation on this



account. Likewise any excess quantities of any and all items shall have to be carried out at approved rates as directed within the currency of the contract agreement which shall be one year from the date of agreement.

17. Payment:

(A) The payment will be made after satisfactorily completion of the drilling & allied works as per requirement and tender specifications. However payment shall be made as per the availability of fund and providing following certificate with the bill.

(B) Certificate duly signed by the concerned Sarpanch /Deputy Sarpanch / Talati of the Gram Panchayat regarding satisfactory site clearance, leveling etc. including proper refilling of all the pits dug for drilling work after completion of tube well & duly signed by the Deputy Executive Engineer (EIC).

(C) Payment will be made as per the approved rates of the tender for which agreement is done. In any case, if depth of bore is required to be increased / decreased due to technical reasons than payment will be made as per the rates of the group for which the agreement is made. If the actual depth drilled is less than estimated depth, no compensation shall be given to the contractor on account of decrease in estimated depth.

(D) Payment of running and final bills shall be made after carrying out pre audit by external auditor appointed by GWSSB as per circular of Member Secretary, Gujarat Water Supply & Sewerage Board vide no. AB/ SM -1-2/Pre Audit/2016-17/F. No. 63/ 677/ of Date: 19/12/2019. However only tender agreements where approved amount of contracted tender exceeds Rs. One Crore (10000000 . 00) shall be subject to this condition (Copy enclosed). All tenders contracted approved amount below Rs. one crore shall not be subjected to this condition.

18. Price Variation : Price variation clause is applicable as per following formula.

$$\text{Formula} = Z \times W \times \frac{(D_1 - D_2)}{D_2}$$

Z = Bill amount of the particular bore

W= Weightage of Diesel i. e. 52%

D₁= Rate of Diesel at the time of pin point given

Diesel rate will be taken from IOCL petrol pump through SMS and will be published every week on Monday from Head Office of GWSSB.

D₂ = Star rate of Diesel shall be taken at the time of uploading of tender which shall be 98.13 **(In words Rs. Ninty Eight and Thirteen Paise Only).**



Price variation clause will be applicable in case of increase and / or decrease in price of Diesel with reference to the above stated star rate.

Further exact date of pin point shall be reckoned from date of starting of pilot drilling which shall be certified by Sarpanch / Talati of Gram Panchayat, Representatives of the Department i. e. DEE / Hydrologist / AE / AEE / Junior Geologist and the Agency.

Price escalation clause is applicable only for one input i. e. Diesel (HSD) and not any other input / material / services required to complete the contracted works.

19. **Guarantee or Warranties** : The contractor shall warrant and guarantee the entire work and parts thereof against faulty or defective workmanship provided by him / them as provided in Cl.17 of the contract.
20. **Jurisdiction**: Jurisdiction of the contract shall as per the head quarters of the concerned P. H. Mechanical Division office i. e. Palanpur where tender agreement for the work is executed.
21. **Dispute**: In the event or any problem, dispute or differences arising out during carrying out the contracted works, the decision of the Superintending Engineer, P. H. Mechanical Circle, **Ahmedabad** will be final and binding on the parties to this contract.
22. In case, if any contractor (other than the lowest bidder i. e. L1 in a particular group) gives written submission expressing his unwillingness / refusal to carry out work at approved rates, then his EMD will be released but his right regarding this tender will be forfeited and no work will be allotted to the same contractor during the currency / applicability of this tender.
23. Income tax & GST & all other applicable taxes, any other levies, cess, etc. will be deducted from the bill as per applicable rates at the time of making payment.
24. The amount recoverable from the contractor by GWSSB on any account, can be recovered from the bills payable to the contractor(s) under this clause.
25. Pre-qualification is mandatory for this bid.
26. Limitation of depth of bore is as mentioned in BOQ. However the contractor is bound to drill tube well up to required depth.
27. Agency should quote the rates in the bid considering all the applicable Central & State Government taxes, levies, cess and all applicable other prevailing taxes.
28. **GST**: GWSSB will reimburse actual amount paid on account of Goods & Service Tax (GST) on production of necessary documents & proofs. However it will be sole responsibility of the contractor to pay GST as per



prevailing rules, rates & in stipulated time frame decided by the concerned tax authorities.

29. Agency should quote the firm and fixed rates exclusive of GST which will prevail throughout the currency of the tender which shall be 01 year from the date of agreement. No price escalation shall be given on any account.
30. Income tax and all statutory deductions will be made as per prevailing Government norms.
31. Agency must scan GST registration number document and upload the same with the tender.

Signature of Contractor

Executive Engineer



Gujarat Water Supply & Sewerage Board

Public Health Mechanical Division, Mehsana.

Name of work: Drilling 200 and 250 mm dia. up to/ Above 300 meters (Total 12 numbers) deep tube wells by DR / RR drilling rig at various villages in Vadgam, Palanpur, Dhanera & Dantiwada talukas (Group A) of Banaskantha district including supply of various type of MS bore materials & slotting work of MS ERW pipes.

TECHNICAL SPECIFICATIONS FOR DRILLING WORK

1: Drilling 250 / 300 mm dia. Pilot Bore

250 / 300 mm dia. pilot bore is to be drilled at village specified in the Price Bid (Schedule - B) and up to specified / desired depth in all type of strata by using best quality sodium based bentonite powder.

The drilling should be done by mud flush direct circulation rotary rig with hydraulic movements fitted with heavy duty reciprocating mud pump or by Reverse Rotary Rig.

All tools and equipments required for drilling operation should be brought to site of work by contractor at his own cost. Arrangement of fresh potable (i.e. TDS not higher than 2000 ppm) water for drilling operation should be made by the contractor at his own cost. Only in unavoidable circumstances, drilling water of salinity higher than 2000 PPM TDS may be used after obtaining the specific permission from the Hydrologist / Deputy Executive Engineer (here after referred as EIC) for drilling work.

If fresh water (i.e. 2000 ppm) is not available in surrounding area up to 2 kilometers distance from the drilling site, the necessary arrangement for departmental water tanker will be arranged by EIC and required charges for the same will be recovered from the bill of the contractor as per departmental norms.

The drilling agency has to collect and furnish following information:

Samples of drilled cuttings from different strata shall be collected at suitable intervals preferably at every 2 meters depth while drilling pilot borehole. However if a change in strata occurs the same shall also be collected & followed up by collection at regular interval of 2 meters depth. Opinion of the concerned Geo Hydrologist / Hydrologist shall be binding to the contractor in this regard. The samples should be stored in sufficient quantity in sample strata box and should be washed properly while the drilling is in progress. The Hydrologist / Jr. Geologist will prepare lithological log based on such collected samples. An accurate drilling time log shall be kept indicating the time taken for drilling every two meters depth. This log will enable correct interpretation regarding the



nature of formation viz. hard, soft, unconsolidated etc. which has bearing on the water yielding capacity of the formation.

ELECTROLOGGING TEST:

Department logger conducts this test as per standard practice. The contractor should inform well in advance to the EIC for the above test after completion of 250 / 300 mm dia. pilot bore hole. In no case, logging test in pilot borehole exceeding 300 mm dia. size shall be conducted / carried out. Pilot bore hole shall be made uniform i.e. finished by R. R. cutter before geophysical electro logging. The logging probe / sonde / electrode must reach at specified depth of bore hole as stated in the schedule. Failing which, Hydrologist / logger operator can ask for cleaning the borehole again and ensure clean & smoothly finished borehole to enable carrying out repeat (i.e. second time) logging test. The charges as per prevailing SOR for repeat i.e. second time logging shall be recovered from the contractor as certified by the logger operator (Hydrologist / Jr. Geologist) in the electro logging report.

If the logging is not possible in 300 mm dia. because of expanding nature of clay or any such geological reasons, the agency is not required to pay the re-logging charges. However, the logger operator will have to clarify / certify above reason in the electro logging report.

2: Reaming of 250/ 300 mm dia. Borehole

Reaming from 250 / 300 mm diameter bore hole to 400 / 450 / 550 / 600 mm dia. size bore hole up to desired depth as specified in Schedule- B in all alluvial strata / soft and hard rock / plastic clay by using best quality sodium based bentonite powder. The drilling shall be done by mud flush direct rotary rig. Pilot borehole of size 250 / 300 mm diameter shall have to be reamed to borehole of finished size 400 / 450 / 550/ 600 by R. R. cutter of required size.

In tube wells where 200 mm diameter pipes are to be lowered size of reaming shall be 450 mm diameter and similarly in tube wells where 250 mm diameter pipes are to be lowered size of reaming shall be 550 mm diameter with following exceptions.

For 200 mm diameter tube wells, pilot bore hole shall be reamed up to size of 550 mm diameter up to the depth of cement sealing suggested in the pipe assembly and if it (cement sealing) is at a depth greater than **150** meters. In case where no cement sealing is suggested in the pipe assembly, reaming of uniform 450 mm diameter size shall be done up to full depth.

Likewise, for 250 mm diameter tube wells, pilot bore hole shall be reamed up to size of 600 mm diameter up to the depth of cement sealing suggested in the pipe assembly if it (cement sealing) is at a depth greater than **150** meters. In case where no cement sealing is suggested in the pipe assembly, reaming of uniform 550 mm diameter size shall be done up to full depth.



In both the cases above, the concerned Hydrologist in consultation with Geo Hydrologist shall give such opinion / recommendation in the writing along with geological feasibility report & suitable provision should have been made at the time of preparation of estimates & schedule B. However if such situation arises during drilling & after electro logging of pilot borehole, the decision regarding reaming of higher size of the concerned Hydrologist / Geohydrologist shall be final & binding to the contractor.

However if the contractor wishes to ream the pilot bore hole to uniform size i . e . 550 mm or 600 mm (as the case may be) bore hole irrespective of suggested depth of cement sealing is free to do so. But no additional payment shall be given on this account of over sized reaming. Similarly no additional amount for extra consumption of gravels on account of such oversized reaming shall be made to the contractor. Above condition is kept so that bridging does not happen during gravel packing due to any known / unknown reasons. Department shall not be held responsible in case of bridge formation due to steps of reaming.

If further drilling cannot be done up to specified depth due to encountering the hard formation, blue sticky clay or shale or any such geological formation, the drilling will have to be stopped as per instructions of the Hydrologist and payment will be made for the work carried out by the contractor.

After completion of reaming of borehole of stated size & depth as per pipe assembly, work of lowering & jointing of ERW / MS blind pipes / strainer or screen pipes etc. is to be carried out as per pipe assembly.

To enable smooth lowering of pipe assembly in the finished & reamed borehole up to the specified depth as suggested in the pipe assembly, reaming for further depth up to 3 meters (or less as suggested by the Hydrologist) shall be carried out. This is to ensure safe lowering against any residual cutting remaining in the bore hole. No payment will be made for this extra drilling up to 3 meters depth.

Contractor shall keep all the required materials i . e . gravels, cement, clay balls etc. in sufficient quantity ready at site of work before the commencement of process of pipe lowering, gravel packing etc. In absence of unavailability of required quantities of gravels, cement & clay balls the EIC shall be within his/ her right to postpone the starting of pipe lowering till arrival of above materials at site of work. Further department shall not be liable for any delay caused due to above. No claim from the contractor shall be entertained by the department in this regard.

The pipe assembly (as per the size of tube well) suggested by the Hydrologist is to be lowered as per instructions of EIC and pipe lowering work shall be started by mutual understanding and in the presence of Deputy Executive Engineer in charge, Hydrologist, contractor and representative of the village panchayat. The process of pipe lowering shall start only during day light i . e . on or after 7.00 am. However once the process is started it will be allowed to be



completed irrespective of time taken. Pipe lowering will not be allowed to start after sun set i. e. after 7.00 pm under any circumstances. The required suggested size of casing, screen / strainer pipes etc. shall be brought by the contractor from the designated store(s) of department as directed by EIC & as per pipe assembly. Carting of pipes from store(s) to site of work is to be done by the contractor without any extra cost.

The pipes should be lowered in a vertical position in proper alignment with steel bent plates of suggested size. After welding & jointing of pipes, alignment of each & every pipe should be checked while lowering with spirit level. It should be ensured that each joint of pipe assembly perfectly welded with welding rods of good quality & of reputed make for welding of MS ERW pipes of required size & thickness without any additional cost.

While welding of MS pipes, it should be ascertained that there are no air gaps left so that there is no chance of water leaking through the welded joint from outer wall of pipe across the length of the entire pipe assembly. Welding of each joint has to be done initially by 8 SWG welding rods (of reputed make & as per relevant IS) uniformly followed by removal of extra slag / flux, thereafter second line of welding shall be applied to ensure perfect welded joint. Utmost care has to be taken to ensure that no side of bent plate remains unwelded with pipe including circumferential welding.

If the bore is required to be drilled for greater depth than the specified depth in schedule B, the contractor is bound to carry out such additional drilling work including subsequent jointing and lowering casing and strainer pipes etc. as required. In case of such additional work, payment will be paid as per approved rates of the department.

The gravel packing around housing casing and strainer pipes shall have to be carried out by the contractor without additional cost.

Before starting of gravel packing, it should be ensured that thickness of mud plaster is reduced to minimum and perfect back washing should also be carried out.

The tube well should be gravel packed with at least minimum calculated quantity and size of the gravel to be used as suggested by the concerned Hydrologist. The gravel packing operation shall be continued till filter is constructed around the slotted / screen pipes so as to ensure that no sand flows in the tube well while in normal operational condition. After gravel packing no mud slurry should remain at bottom and it should be thoroughly cleaned by fresh water.

Record of quantity of gravel packed in the bore should be kept by the contractor and should be furnished along with strata chart.



Clay packing (clay ball packing if required) shall be done by the contractor by providing sticky clay only as desired by EIC before and after development of bore by compressed air as directed by the EIC.

Certificate regarding quality i.e. size & quantity of gravels & clay balls is to be obtained by the contractor from the Hydrologist as well as EIC & the same is to be submitted along with the bill on completion of work.

VERTICALITY TEST: (In case of education (drop) line and airline cannot be lowered during compressor test)

The verticality test will be performed as per standard practice and as per IS: 2800 (Part II) / 1979 & as per directives of EIC. The verticality test will be carried out in the presence of the EIC to measure straightness of the bore.

The deviation up to 10 centimeters per 30 meters will be permitted in one plane and one direction only and no deduction in payment will be made.

1. If the deviation is beyond 10 centimeters, the tube well will be accepted with 10 % deduction from the payment of drilling charges provided (1) submersible pump of required capacity suitable to the drilled tube well in case of availability of power & functions satisfactorily and (2) Turbine pump of required capacity suitable to the drilled tube well in case of non availability of power is lowered at required depth and runs satisfactorily.
2. If either submersible pump or turbine pump of required capacity and size cannot be lowered in the drilled tube well and does not run satisfactorily, the tube well will be rejected and no payment will be made. The arrangement for providing, lowering and running of suitable pumping machinery including obtaining of electric power shall have to be made by the contractor at his cost. In case of artesian tube well, the artesian condition may be removed by fitting piece of pipe of minimum 2 meters length or of longer length as required above the tube well and eccentricity shall be measured. Otherwise full payment should be made without insisting of measurement of eccentricity.

3 A): CEMENT SEALING

Cement sealing should be carried out by mud pump and air line at specified depth if given in the pipe assembly suggested by the Hydrologist. Pit of required size shall be dug for preparing cement slurry i.e. mixture of cement & clean water in required proportion as directed by the Hydrologist. During process of cement sealing the mixture shall be continuously stirred so as to not allow cement to be consolidated / hardened. The cement slurry should also not be allowed to slip in the bottom as well as sides in the pit dug for preparing the same. Adequate pressure has to be maintained so as to deliver cement slurry at the intended depth. Entire work should be carried out in the presence & as per the instruction of EIC and Hydrologist / Geologist.



3 B): BOTTOM CEMENT SEALING

Bottom cement sealing should be carried out by mud pump and air line at specified depth if given in the pipe assembly suggested by the Hydrologist. The entire procedure remains same as that described for cement sealing in item no. 5 (A). Pit of required size shall be dug for preparing cement slurry in required proportion as directed by the Hydrologist. The work should be carried out in the presence & as per the instruction of EIC and Hydrologist / Geologist.

4: SEALING OF OLD EXISTING TUBE WELL BY STICKY CLAY S

Old existing tube well shall be sealed by sticky clay in required quantity by the contractor before development of new tube well as per suggestion in the pipe assembly given by the Hydrologist. Hydrologist has to give opinion in writing recommending sealing of tube well either in preliminary feasibility report and / or in suggested pipe assembly.

TECHNICAL SPECIFICATIONS FOR MISCELLANEOUS DRILLING ITEMS:

CLAY BALLS, GRAVELS & CEMENT

1: CLAY BALLS

Clay balls of required quantity shall be supplied at site of work by the contractor before starting of pipe lowering work. Clay balls should be prepared from sticky clay only. The size of clay balls should be ranging from 25 mm to 50 mm. Clay balls should be packed as suggested in the assembly given by the Hydrologist.

2: GRAVELS

Gravels of selected size ranging from 4 mm to 10 mm shall be supplied at site of work by the contractor before starting of pipe lowering work. Gravels supplied shall be; hard, well rounded uniform sized, washed & clean as well as free from dust / clay / foreign particles etc. and the same should be from Mahi River. Gravels shall be procured from plant so as to have uniformity in size. Sieve analysis if required shall be carried out or certificate to that effect may be furnished as evidence.

3: CEMENT

ISI marked ordinary port land cement of grade 53 shall be provided in packed & properly stitched bags in required quantity at site of work. The cement should be fresh and free from any moisture and foreign particles.

TECHNICAL SPECIFICATIONS FOR MISCELLANEOUS ITEMS:

M. S. / UPVC BORE MATERIALS

1 : Bore Clamps (A): Clamps shall be manufactured from 10 mm thick MS plate of best quality suitable to 200 mm dia. size MS ERW pipes. Proper bending of MS plate shall be done so as to ensure its fixing on 200 mm size pipes. Overall length of finished clamp shall be 750 mm. Each clamp shall be provided with 03 holes on either side suitable for 7/8" size bolt. Each pair of clamps shall be provided with 06 numbers of threaded bolts of 7/8" size and of adequate length i.e. minimum 3 inches with hexagonal nut of standard quality. Size of finished clamps shall be 750 mm x 75 mm x 16 mm. Material shall be coated with Red Oxide to prevent the rusting. Inspection will be carried out by the concerned EIC.

1: Bore Clamps (B): Clamps shall be manufactured from 16 mm thick MS plate of best quality suitable to 250 mm dia. size MS ERW pipes. Proper bending of MS plate shall be done so as to ensure its fixing on 250 mm size pipe. Overall length of finished clamp shall be 900 mm. Each clamp shall be provided with 03 holes on either side suitable for 7/8" size bolt. Each pair of clamps shall be provided with 06 numbers of threaded bolts of 7/8" size and of adequate length i.e. minimum 3 inches with hexagonal nut of standard quality. Size of finished clamps shall be 900 mm x 100 mm x 16 mm. Material shall be coated with red oxide primer to prevent the rusting.

2 : Bore Plugs (A), (B) & (C): Bore plugs shall be manufactured from 05 mm thick MS plate of best quality suitable to 200 mm and 250 mm dia. size MS ERW pipes as the case may be. Circular MS plate of minimum 05 mm thickness shall be welded properly at 05 mm thick MS top plate. Overall height of plug shall be 100 mm inclusive of top plate. Bore plug shall have 5/8" size 03 holes drilled properly equidistant on circumference (periphery of plug) and 5/8" size nuts shall be welded onto the hole. 5/8" size 03 numbers of fully threaded bolt of adequate length of standard quality shall be provided with each bore plug. Material shall be coated with red oxide primer to prevent the rusting.

Bore plug made of UPVC pipe as per relevant IS of 100 mm height is to be supplied as per site requirement. It shall be manufactured by reputed company & shall be of good quality.

3 : Bail Plugs:(A), (B) & (C): Bail plugs shall be manufactured from medium class MS pipe of minimum 05 mm thickness as per relevant IS 3589 of best quality suitable to 200 mm and 250 mm dia. size MS ERW pipes as the case may be. Cone of bail plug shall be made from minimum 05 mm thick MS plate & shall be welded properly on to one end of pipe. Overall length of bail plug shall be 450 mm where length of pipe portion shall be minimum 200 mm in length. Material shall be coated with red oxide primer to prevent the rusting.



Bail plug made of UPVC pipe as per relevant IS of 450 mm length is to be supplied as per site requirement. It shall be manufactured by reputed company & shall be of good quality.

- 4 : Bent Plates : (A) & (B):** Bent plates shall be manufactured from MS plate of best quality of 06 mm thickness. Proper bending of rectangular plate shall be done so as to fit the same on to 200 mm and 250 mm dia. size MS ERW pipes as the case may be. Edges of bent plates shall be smoothly finished & no rough /jagged surfaces shall be allowed Size of bent plates shall be 150 mm x 150 mm x 6 mm for 200 mm dia. pipes & the same shall be 200 mm x 150 mm x 6 mm for 250 mm dia. Material shall be coated with red oxide primer to prevent the rusting.

SLOTING WORK OF MS ERW PIPES:

MS ERW plain ended pipes of 200 mm dia. & 250 mm dia. are to be slotted by slotting machines with minimum size of slot as 6.75 cm x 6.35 cm x 3.12 mm and 6.75 cm x 6.35 cm x 1.59 mm as the case may be. Length of slot shall be min. 2 ½" (6.75 cm) on outer side and 2 ¼" (6.35 cm) on inner side and width of slot shall be 3.12 and 1.59 as the case may be.

Details of number of rounds per pipe and number of slots per round are tabulated below.

Sr. No.	Size of Pipe	No. of Slots per round	No. of rounds per 01 meter length of pipe
Size of slot: 6.75 cm x 6.35 cm x 3.12 mm			
1	200 mm	72	12
2	250 mm	90	12
Size of slot: 6.75 cm x 6.35 cm x 1.59 mm			
1	200 mm	96	12
2	250 mm	120	12

Each end of pipe shall not be slotted so as to allow welding of M. S. bent plates. Length of blind portion of pipe shall be in the range of minimum 0.20 to 0.25 meter depending on diameter of pipes.

Slots shall be smoothly finished and care shall be taken so as not allow any residual burrs / cut metal & chips in the slotted pipes.

The rates are quoted with carting of the pipes from departmental store(s) to workshop & from workshop to the site of work. The inspection of the work will be carried out by the concerned EIC.

CLEANING and DEVELOPMENT of TUBE WELL by AIR COMPRESSOR:

Initial development should be carried out by means of compressed air within one week from completion of gravel packing / cement sealing. Air compressor to be used shall be of minimum required capacity as stated in Schedule B. Education (drop) line & air line of minimum 100 mm and 32 mm size respectively should be used for development of all water bearing aquifers / zones across the depth of tube well.

1. Compressor test shall be carried out as per following procedure. Contractor has to cart all the required materials, machinery and accessories like education / drop line, airline, required capacity compressor and accessories required to lower air line, education line / drop line in the tube well etc. at site of work at his own risk and cost. No carting charges shall be paid for handling such machinery, materials and accessories.
2. Contractor has to carryout compressor test in each zone by lowering airline into drop line lowered in each zone by keeping lower end of education / drop line in each zone till sand free discharge is obtained. Thus after cleaning of the first zone the contractor has to carryout compressor test of subsequent zone till sand free discharge is obtained. By this way the contractor has to carryout cleaning and development of each zone separately & sequentially.
3. The entire work is to be carried out under the supervision of the concerned Hydrologist / Geologist and after completion of work the contractor has to obtain the necessary certificate for satisfactory completion of work from him.
4. To carry out the work shown in paragraph - (2) the contractor has to pull out the air line first and then lower the drop line for each zone. By this way the contractor has to clean all the water bearing zones sequentially. Cleaning and development of one bore, carried out by this way shall be treated as one full job and payment shall be made for such completed full job. The compressor test will be carried out as under:
 - 1) For 200 / 250 mm dia. tube well up to depth of **120 meters, 600 CFM / 150 PSI** capacity compressor shall be used direct by compressed air pneumatic delivery hose (i. e. without air line and education line) for zone wise development of water bearing aquifers. The compressor shall be used for minimum 6 hours or till sand free discharge is obtained whichever is later. The contractor may use higher capacity air compressor if so desired but without any additional extra cost to the department.
 - 2) For 200 / 250 mm dia. tube well up to depth above **120 meters but up to 200 meters, 900 CFM / 200 PSI** capacity compressor shall be used with airline and education line for zone wise development of water bearing aquifers. The compressor shall be used for minimum 6 hours or till sand free discharge is obtained whichever is later. The contractor may use higher capacity air compressor if so desired but without any additional extra cost to the



department.

- 3)) For 200 / 250 mm dia. tube well up to depth above **200** meters but up to **300** meters, **1100 CFM / 300 PSI** capacity compressor shall be used with air line and eduction line for zone wise development of water bearing aquifers. The compressor shall be used for minimum 6 hours or till sand free discharge is obtained whichever is later. The contractor may use higher capacity air compressor if so desired but without any additional extra cost to the department.
- 4)) For 200 / 250 mm dia. tube well above the depth of **250** meters but up to **300** meters, **1100 CFM / 300 PSI** capacity compressor shall be used with air line and eduction line for zone wise development of water bearing aquifers with simultaneous running of two air compressors only when SWL (static water level as certified by the Hydrologist) is equal to and greater than 170 meters below the ground level i. e. BGL. The compressor(s) shall be used for minimum 6 hours or till sand free discharge is obtained whichever is later. The contractor may use higher capacity air compressor if so desired but without any additional extra cost to the department.
- 5)) For 200 / 250 mm dia. tube well above the depth of **300** meters, **1100 CFM / 300 PSI** capacity compressor shall be used with air line and eduction line for zone wise development of water bearing aquifers with simultaneous running of two air compressors. The compressor(s) shall be used for minimum 6 hours or till sand free discharge is obtained whichever is later. The contractor may use higher capacity air compressor if so desired but without any additional extra cost to the department.

In the specific case above, the concerned Hydrologist in consultation with Geo Hydrologist shall give such opinion / recommendation in the writing along with geological feasibility report & suitable provision should have been made at the time of preparation of estimates & schedule B. However if such situation arises after completion of drilling & lowering of pipe assembly, the decision regarding simultaneous use of two compressors of the concerned Hydrologist / Geohydrologist shall be final & binding to the contractor.

HANDING OVER THE TUBEWELL

The housing casing pipe should be closed by M S bore plug. The bore plug shall be fully secured preferably welded. The contractor has to clear the drilling site by filling the mud & cement sealing pits by clay etc. Under no circumstances mud pits etc. shall be left unfilled & all debris must be cleared from the site of work by the contractor without any additional cost.

The contractor has to give four post card sized colour photographs of filled mud pit / cement sealing pit & site which is leveled & properly cleared along with removal of debris (if any). Note that date of completion of work shall be considered on the basis of clearance of site of work including filling of



excavated mud pits by the contractor. The contractor shall have to get certificate from Gram Panchayat duly signed by Sarpanch / Talati for refilling of mud pits & clearance of site of work. Failing which bill of the contractor shall not be submitted by the EIC.

The following information should be furnished by the drilling agency in **strata chart** as per Annexure-III on completion of the tube well.

1. . Strata chart of the tube well indicating the different types of soil met with at different depth as per litho log.
2. . Samples of strata collected should be neatly packed in sample bags and correctly marked as well.
3. . Chart of actual pipe assembly lowered indicating the size of the pipe, depth range where housing casing and strainer pipes have been used, depth of bore diameter of hole and total depth.
4. . Position of every joint in the assembly lowered.
5. . Hours of development of tube well carried out by air compressor.
6. . Static water level and pumping water level with discharge.
7. . Above details should be furnished as per Appendix – A duly signed by EIC and Hydrologist / Geologist.
8. In any case if tube well drilled by reverse rotary rig is required to be abandoned payment for only pilot bore drilling will be made.

Signature of Contractor

Executive Engineer



Gujarat Water Supply & Sewerage Board

SCHEDULE – A

Public Health Mechanical Division, Palanpur

Name of Work: Drilling 200 and 250 mm dia. up to/Above 300 meters (Total 12 numbers) deep tube wells by DR / RR drilling rig at various villages in **Vadgam, Palanpur, Dhanera & Dantiwada talukas (Group A) of Banaskantha** district including supply of various type of MS bore materials & slotting work of MS ERW pipes.

Sr. No.	Particulars	Qty	Rate	Unit	Place of delivery
1	200 and 250 mm dia. M S ERW blank pipe	As per Pipe Assembly	Free of Cost	RMT	Departmental stores of P. H. Mechanical Division, <u>Palanpur</u>
2	200 and 250 mm dia. M S ERW / UPVC slotted / “V” screen pipe	----- do ----	----- do ----	RMT	----- do ----

NOTE:

- 1)) Carting above material from the place of delivery should be done by the contractor at his own cost.
- 2)) Size of the above items will be as per size of particular tube well.
- 3)) The materials shown in above schedule will be issued free of cost. However the contractor shall have to return balance materials (if any) at departmental store at his cost. Failing which, recovery at double the issue rates for such materials which are not returned will be made from the contractor in view of clause 12-A of the contract.

Signature of Contractor

Executive Engineer



Gujarat Water Supply & Sewerage Board

Public Health Mechanical Division, Palanpur

S C H E D U L E - B

Name of Work: Drilling of 200 and 250 mm dia. tube wells up to/Above 300 meters depth by D R / R R drilling rig in 12 different villages of Vadgam, Palanpur, Dhanera & Dantiwada talukas (Group A) of Banaskantha of Gujarat state.

Qty	Description of Item	Rate	Unit	Amount
1	2	3	4	5
	Item No. 1: Pilot Drilling:			
3600	Drilling 250 / 300 mm dia. pilot bore at village site in all strata by mud flush direct rotary rig / reverse rotary rig by using bentonite powder (From 0 to up to 300 meters depth).	701.00	RMT	2523600.00
	Item No. 2: Reaming & Lowering Etc.:			
3600	(A) Reaming of 250 / 300 mm dia. bore hole to 450 mm dia. bore hole including assembling, jointing, lowering of housing casing, strainer / screen pipes and other assembly items with gravel packing and clay ball packing etc. (From 0 to up to 300 meters depth).	325.00	RMT	1170000.00
1500	(B) Reaming of 250 / 300 mm dia. bore hole to 550 mm dia. bore hole including assembling, jointing, lowering of housing casing, strainer / screen pipes and other assembly items with gravel packing and clay ball packing etc. (From 0 to up to 300 meters depth).	431.00	RMT	646500.00
300	(C) Reaming of 250 / 300 mm dia. bore hole to 600 mm dia. bore hole including assembling, jointing, lowering of housing casing, strainer / screen pipes and other assembly items with gravel packing and clay ball packing etc. (From 0 to up to 300 meters depth).	593.00	RMT	177900.00
	Item No. 3: Clay Balls:			
130	Supply of clay balls having size of 25 mm to 50 mm.	751.00	CMT	97630.00
	Item No. 4: Gravels:			
572	Supply of gravel of selected size 4 mm to 10 mm.	2029.00	CMT	1160588.00
	Item No. 5: Cement:			
5	Supply of cement.	6302.00	MT	31510.00
	Item No. 6: Cement Sealing:			
5	Cement sealing by using air line and through mud pump.	13273.00	JOB	66365.00



	Item No. 7: Bottom Cement Sealing:			
2	Bottom cement sealing job	6661.00	JOB	13322.00
	Item No. 8: Drop & Air Line:			
1800	(A) Lowering of 100 mm dia. drop line and 32 mm dia. air line in the drop line to develop each water bearing zone coming across the depth of tube well of size 200 / 250 mm dia. and depth up to 186 meters for development of tube well by air compressor.	143.00	RMT	257400.00
9	(B) Lowering of 100 mm dia. drop line and 32 mm dia. air line in the drop line to develop each water bearing zone coming across the depth of tube well of size 200 / 250 mm dia. and depth above 186 meters for development of tube well by air compressor.	26691.00	LS Job	240219.00
	Item No. 9: Air Compressor:			
3	(A) Running of air compressor of 600 CFM / 150 PSI capacity (For 200 mm / 250 mm dia. bore up to depth of 120 Meter) for zone wise development by drop line and air line method for minimum six hours or up to availability of sand free discharge.	22205.00	Job	66615.00
7	(B) Running of air compressor of 900 CFM / 200 PSI capacity (For 200 mm / 250 mm dia. bore above 120 meters and up to 200 meters depth) for zone wise development by drop line and air line method for minimum six hours or up to availability of sand free discharge.	27330.00	Job	191310.00
9	(C) Running of air compressor of 1100 CFM / 300 PSI capacity (For 200 mm / 250 mm dia. bore above 200 meters and up to 300 meters depth) for zone wise development by drop line and air line method for minimum six hours or up to availability of sand free discharge.	34662.00	Job	311958.00
	Item No. 10: Bore Clamps:			
12	(A) Clamps made from M S plate with 3 holes on either side with nuts & bolts of standard make & suitable to 200 mm dia. pipe of size 750 mm x 75 mm x 16 mm.	1627.71	Pair	19532.52
5	(B) Clamps made from M S plate with 3 holes on either side with nuts & bolts of standard make & suitable to 250 mm dia. pipe of size 900 mm x 100 mm x 16 mm.	2017.73	Pair	10088.65
	Item No. 11: Bore Plug:			
12	(A) Bore plug having 100 mm height made from M S plate of minimum 05 mm thickness with 3 holes at equal distance on circumference for nut bolts type locking arrangement with nut bolts & lock nuts of standard make etc. complete for 200	774.82	No.	9297.84

	mm dia. M S ERW pipes.			
5	(B) Bore plug having 100 mm height made from M S plate of minimum 05 mm thickness with 3 holes at equal distance on circumference for nut bolts type locking arrangement with nut bolts & lock nuts of standard make etc. complete for 250 mm dia. M S ERW pipes.	1150.12	No.	5750.60
	Item No. 12: Bail Plug:			
12	(A) M S bail plug having length of 0.45 meter made from medium class pipe as per IS suitable for 200 mm dia.	842.61	No.	10111.32
5	(B) M S bail plug having length of 0.45 meter length made from medium class pipe as per IS for suitable for 250 mm dia.	1054.48	No.	5272.40
	Item No. 13: Bent Plates:			
1764	(A) Steel bent plates suitable to 200 mm dia. M S pipe of size 150 mm x 150 mm x 6 mm.	66.59	No.	117464.76
735	(B) Steel bent plates suitable to M S 250 mm dia. pipe of size 200 mm x 150 mm x 6 mm.	90.80	No.	66738.00
	Item No. 14: Slotting:			
0	(A) Slotting of M S ERW pipes with minimum size of slot 6.75 cm x 6.35 cm x 3.12 mm of 200 mm dia.	0.22	Slot	0.00
1244160	(B) Slotting of M S ERW pipes with minimum size of slot 6.75 cm x 6.35 cm x 1.59 mm of 200 mm dia.	0.23	Slot	286156.80
486000	(C) Slotting of M S ERW pipes with minimum size of slot 6.75 cm x 6.35 cm x 3.12 mm of 250 mm dia.	0.24	Slot	116640.00
648000	(D) Slotting of M S ERW pipes with minimum size of slot 6.75 cm x 6.35 cm x 1.59 mm of 250 mm dia.	0.26	Slot	168480.00
	Item No. 15: Sealing of Existing Tube Well:			
1000	Sealing of existing tube well by sticky clay as per requirement.	99.00	RMT	99000.00
TOTAL Rs.				7869449.89
Say Rs.				7869450.00
In Words	Rs. Seventy-Eight Lakh Sixty-Nine Thousand Four Hundred Fifty Only.			

I / We am / are willing to carry out the work at _____% (in Figures) (in Words) Above / Below the tendered estimated rates mentioned above. (Strike out below whichever is not applicable).

<u>OFFER FOR BELOW:</u>		<u>OFFER FOR ABOVE:</u>	
Estimated Cost Rs:	7869450.00	Estimated Cost Rs:	7869450.00
Less _____% Deduct Rs. _____.		Above _____% Add Rs. _____.	
Net Amount (Figures) Rs. _____.		Net Amount (Figures) Rs. _____.	
Net Amount (In Words) Rs. _____.		Net Amount (In Words) Rs. _____.	

Signature of Contractor

Executive Engineer

Memorandum of Understanding

Between Bidder and Direct Rotary / Reverse Rotary Drilling Rig Owner(s) for assured & timely availability of Drilling Rig(s) of required & adequate capacity with associated equipment, tools & tackles etc. on as & when required basis for drilling of bores (up to/Above 300 meters depth) in Vadgam, Palanpur, Dhanera & Dantiwada talukas (Group A) of Banaskantha district by GWSSB.

In the interest of timely completion of the work, after discussions and getting assurance from the **Direct Rotary / Reverse Rotary Drilling Rig Owner** who has the kind of DR / RR drilling rig with all required equipment, tools & tackles & experience of drilling of D R bores (up to 300 meters) with allied activities.

I, _____ hereby give written assurance to provide DR / RR drilling rig bearing registration number _____ which is in good working condition with all required relevant self-certified documents viz. RTO issued R. C. book, fitness certificate, PUC, insurance policy, tax paid voucher etc. to the principal bidder, i. e. _____, bidder of this tender. I will provide required drilling rig(s) of adequate & required capacity to be used by the principal bidder for drilling of D R bores in **Vadgam, Palanpur, Dhanera & Dantiwada talukas (Group A)** of **Banaskantha** district by the GWSSB on as & when required basis.

This memorandum of understanding will hold true & remain valid during the currency of the executed agreement between the original bidder & the Executive Engineer of GWSSB which shall be minimum one year from the date of agreement and any extended period decided mutually.

Signature of Bidder

Signature of DR / RR Rig Owner



AFFIDAVIT
THE DECLARATION REGARDING LITIGATION AND OTHER HISTORY
on Rs. 300/- Non Judicial Stamp Duly Notarized

I, aged, Year occupation business,
residing at do hereby state on solemn
affirmation and declare on oath as under

1. I say that, I am working with
----- as a partner and am duly authorized person of the said -----
----- to do present affidavit on its behalf.
2. I say that the said has submitted /
uploaded tender / e-tender floated by the Executive Engineer, P. H. Mechanical
Division, GWSSB, Palanpur being tender / **e-tender ID** ----- for the work of --

3. I have read the terms & conditions of the said tender conditions and I have understood
the same and are acceptable to
4. I say the details and particulars given by
----- are true and correct, state and declare that the
said
---- has not concealed any fact, details or particulars and all the said -----
----- are true and correct
and complete.
5. I say that if any particulars are found to be incorrect or incomplete or misleading in
any matter, the **Gujarat Water Supply and Sewerage Board** shall have full
authority to cancel the tender at any point of time and the -----
----- shall be liable for all the
consequences that may arise out of the action of the Gujarat Water Supply and
Sewerage Board.
6. I say that I am aware that making wrong statement on affidavit is a punishable
offence.
7. I say that I have not been terminated / blacklisted / debarred in any State Government /
Municipal Corporation / Central Government / Any State Government Organization /
Urban Local body and / or their undertaking companies or their Special Purpose
Vehicle (SPV), Asian Development Bank / World bank or similar international
funding organizations during last Five years.
Solemnly affirmed on this day of 2026 at

Dated Signature of Contractor

