



**THE JHARKHAND STATE COOPERATIVE MILK  
PRODUCERS' FEDERATION LTD.**  
FTC CAMPUS, SEC-2, DHURWA, RANCHI – 834004  
Ph.: +91-(0651) 2543062, MOB: 7544003404/7544003412,  
Email: purchase@jmf.coop



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**TENDER DOCUMENT**  
**FOR PROVIDING MACHINE**  
**DRILLING/BORING AND**  
**INSTALLING BOREWELL AT MEDHA**  
**DAIRY PLANT, HOTWAR, RANCHI**

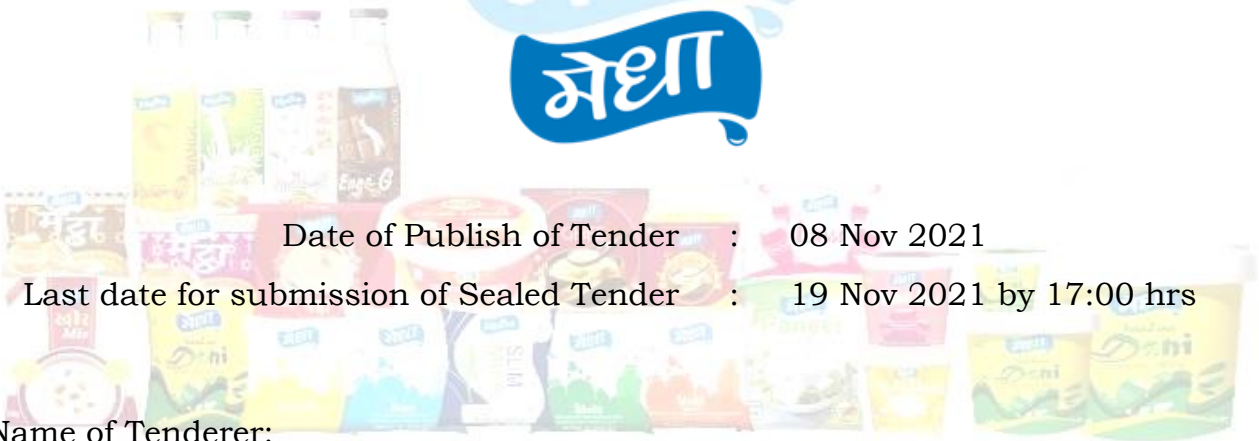
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website: [www.jmf.coop](http://www.jmf.coop)



झारखण्ड राज्य सहकारी दुग्ध उत्पादक महासंघ लिमिटेड  
The Jharkhand State Co-operative Milk Producers' Federation Limited

**TENDER NO: JMF-PP-Machine Drilling-Borewell/2021-22/057**



Date of Publish of Tender : 08 Nov 2021

Last date for submission of Sealed Tender : 19 Nov 2021 by 17:00 hrs

Name of Tenderer: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Telephone no: \_\_\_\_\_

Email Id \_\_\_\_\_

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**BIDDING DOCUMENT  
FOR PROVIDING MACHINE DRILLING/BORING  
AND INSTALLING 02 NOS. BOREWELL OF SIZE  
200 MM / 150 MM COMPLETE WITH  
SUBMERSIBLE PUMP & PIPING ETC. AT  
MEDHA DAIRY PLANT, HOTWAR, RANCHI  
WITH UPVC CASING**

(COMPLETE BIDDING DOCUMENT)

**Time schedule for tender process:**

Date of Enquiry	08 Nov 2021
Date and Time of the Submission Bids	19 Nov 2021 17:00hrs

**Note: This tender document contains 13 pages (total no. of pages including Annexure) and tenderers are requested to sign on all the pages.**



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## **NOTICE INVITING TENDER:**

The Jharkhand Milk Federation (JMF), Ranchi invites sealed envelope from reputed Agencies/Service Providers for Drilling of 02 (Two) nos. of 200MM/150MM Dia Bore wells in the premise of Medha Dairy, Hotwar, Ranchi, Jharkhand. Technical details & requirements are enclosed herewith along with this tender document. Offers are invited in a sealed.

Offers may be submitted to the undersigned on or before 19 Nov 2021 by 17:00 hrs in a sealed cover/envelope super-scribing clearly with **“OFFERS FOR MACHINE DRILLING/BORING OF 200MM/ 150 MM DIA BORE WELLS WITH UPVC CASING AT MEDHA DAIRY, HOTWAR, RANCHI, JHARKHAND”**.

The details of the tender are given below: -

Sl. No.	Name of the work	Qty.	Unit
1	Bore (Reverse Rotary Method) Dia - 200mm	25.00	m
2	Bore (DTH Method) Dia - 150mm	280.00	m
3	UPVC Pipe Casing Dia - 200mm	25.00	m
4	Lowering of UPVC Pipe Dia - 40mm	305.00	m
5	Submersible Pump 1.5HP 3-Phase (KSB, Crompton, Kirloskar, Wilo) with 14 stage with L&T starter	1	Nos.
6	Gi Rope Dia - 6 mm	300.00	m
7	M S Cap - Thickness - 5mm	1	Nos.
8	Cable Flat (3core x 2.5mm)	300.00	m
9	GI Pipe TATA	3.00	m
10	Labour Charge Casing work	25.00	m

Correspondence Address: JHARKHAND STATE COOPERATIVE MILK PRODUCERS' FEDERATION LTD, MEDHA DAIRY PLANT, HOTWAR, BESIDE BIRSA MUNDA CENTRAL JAIL, RANCHI – 835217, JHARKHAND.

### **Time schedule for Tender process:**

Cost of Bidding document	NIL
Date of Request/ Publication of Offer / Tender	08 Nov 2021
Last date for Receipt Offer/ Tender (in Sealed Envelope)	<b>19 Nov 2021 by 17:00 hrs</b>

JMF reserves the rights to accept or reject any tender without assigning any clarification/reason whatsoever.

**For any further details contact: 0651-2270046 /7544003404 /7360035219**

**Sd/-  
Managing Director**



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## INSTRUCTIONS TO BIDDERS

- 1) The tender documents can be downloaded from our website [www.jmf.coop](http://www.jmf.coop) from 08.11.2021.
- 2) All the tenders will be acceptable only in 'Sealed Envelope' on or before the due date.
- 3) The Tender shall be duly filled and all pages of the tender should be signed by the Authorized Signatory of Bidder with company seal.
- 4) The bidder should strictly follow the scope of work/specifications of the items mentioned in **Annexure -II** for quoting/ offering the price. The bidder may contact JMF for any clarifications on the specifications if required.
- 5) Bid Currencies: -The rate/ price should be quoted in Indian Rupees only.
- 6) Any cutting/over writing etc. in the tender must be signed by the person who is signing the tender. The rates shall not be overwritten. The financial figures in commercial bid shall always be both in figures and words. In case of any discrepancy in figures and words, the amount written in words shall be considered.
- 7) The Tenders will be opened on the prescribed date as mentioned above in the presence of the agency or their authorized representative who may like to be present in the office at Hotwar Dairy Plant of Jharkhand State Cooperative Milk Producers' Federation Limited, Ranchi.
- 8) All communication with respect to the tender shall be addressed to: PURCHASE SECTION', Medha Dairy Plant, (A Unit of Jharkhand State Co-Op. Milk Producers' Federation Ltd.), Near Birsa Munda Central Jail, Hotwar, Ranchi – 835217
- 9) The suppliers should be capable to supply the entire requirement. However, JMF reserves the right to engage more than one supplier for critical item & for item required in large quantity.

Corrigendum if any will be published in JMF web site only.

Signature of the Bidder with stamp  
Authorized Contact Person

Mobile No. \_\_\_\_\_





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## **Terms & Conditions:**

1. The Bidder interested, shall fill their complete profile in the attached **Annexure – I**.
2. The Agencies/Service Providers submit detailed Technical Specification & Scope of Work of the above job along with tender document. The item must be as per technical specification & scope of work provided in **Annexure-II**
3. The Agencies/Service Providers should quote for the job/ items in the prescribed format mention enclosed as **Annexure-III**.
4. For ready reference, we are providing standard quotation format for quoting the price. Please quote your price in attached format given at Annex-III only.
5. The Agencies/Service Providers must quote for the items requested inclusive of all taxes and duties, P& F, Insurance, Freight and other levies payable on the materials and components shall be included in the total price and it should be on F.O.R destination basis.
6. No tenders/rates by way of Email/Fax/Telex etc. will be accepted /considered unless JMF specifically asks for rates through such mode of communication.
7. The offer shall remain open for acceptance for a period of 120 days from the date of opening of tenders. Withdrawal of offer before expiry of validity period will result the forfeiture of the earnest money of the tenderers withdrawing his offer.
8. **Clarification of Bids:** To assist in the examination, evaluation and comparison of bids, the empowered committee/ official may ask bidders individually for clarification of their bids, including breakdowns of unit prices. The request for clarification and the response shall be in writing or e mail, but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction or arithmetical errors discovered during the evaluation of the bids.
9. JMF reserves the right to verify/seek confirmation of all original documentary evidence submitted by Bidder in support of above-mentioned eligibility criterion. In case any information furnished by the bidder is found to be false/incorrect at any stage, the bid shall be summarily rejected and no correspondence on the same shall be entertained.
10. **Force Majeure:** In the event of any unforeseen circumstances directly interfering with the supply of goods/work/service arising during the execution of order such as war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, floods, earthquakes, explosions, epidemics, quarantine restrictions, strikes, lockouts, or acts of God, the Bidder shall, within a week from the commencement thereof, notify the same in writing to the Purchaser with reasonable evidence thereof. Either party shall have the option to terminate the contract on expiry of 30 days of commencement of such force majeure by giving 14 days "notice to the other party in writing. In case of such termination, no damages shall be claimed by either party against the other.
11. **Code of Ethics:** The Purchaser as well as the Bidder shall observe the highest standard of ethics including laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988", during the procurement or execution of such supply, installation and commissioning orders. If the bidders are found in Bid pooling or against law against fraud and corruption, then their firms may be blacklisted.
12. Submission of tenders shall carry the undertaking that the tenderer concerned has studied the terms and conditions, specifications, quality, type, character and workmanship of the materials tendered.
13. On receiving orders from JMF, the supply of Product at Jharkhand Milk Federation, Ranchi or any location specified by it shall be the responsibility of the supplier. The rejected material, if any, shall have to be lifted by the supplier at their own cost within a



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week time from the date of intimation from JMF. JMF shall not be responsible for any deterioration due to delayed lifting of the rejected material by the supplier.

14. Material to be suitably packed to prevent damages during transit.
15. GST TDS @2% shall be deducted from the payment made or credited to the supplier (Deducted) of taxable goods or services or both, where the total value of such supply, under a contract, exceeds two lakh and fifty thousand rupees which is effective from 1st November, 2018
16. JMF reserves the right to accept or reject any or all the offers without assigning any reason thereof. Managing Director, JMF shall be Arbitrator in case of any disputes and his decision will be final and binding on both the parties. For all legal matters & dispute Ranchi court shall be our Jurisdiction. Any money found recoverable shall be recovered under the public Demand Recovery Act without prejudice to any other mode of recovery.



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## ANNEXURE- I

No	Details		
1	Name of Vendor/ Tenderer		
2	Address of Registered Office		
3	Address of Factory/ Works		
4	Name of Contact Person		
5	Contact Nos.		
6	Type of Firm: Ltd Co/ Pvt. Ltd. / Partnership/ Proprietor		
7	Nature of Firm: Manufacturer/ Traders / Autho. Dist. / Dealer		
8	Year of Establishment		
9	Name of Product, you Deal		
	Please, Specify in separate sheet (As per below Format)		
	S. No	Item Description (Shortly)	Make/Brand
	1		
10	G.S.T. No & Reg. Date		
11	PAN No & Date		
12	Turn Over Of last 3 Year (Rs.)		
	1.	2.	3.
13	If You have maintained any quality standard (Pl. Specify)		
14	Name of Clients (If required, Pl. Specify in separate sheet)		
	1.	2.	3.
15	Min. Lead Time Required (Days)		
16	Bank Details		
	Name of Bank : Branch Address: Account No. : IFSC Code :		
17	Documents to Be Attached		
	1. Copy of Registration + PAN Copy + GST Regn. 2. ISO Certificates 3. Autho. Dealership 4. Fin. Statements 5. Product Brochures 6. Copy of PO's (Min.5)		
Recommendation:			
Seal & Sign. of Vendor			





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## Annexure-II

### GENERAL TERMS & CONDITIONS

Providing & installing 2 nos. Borewell of size 200 mm / 150 mm complete with Submersible pump & piping etc. at Medha Dairy Plant, Hotwar, Ranchi, Jharkhand

#### **1. Scope of work**

- The contractor's scope of work is broadly defined in specifications of work and Schedule of Quantities.
- All materials, labour, tools & tackles required but not limited to for satisfactory execution of the work.
- Arrange water and power required for satisfactory execution of the work.
- Arrange suitable accommodation for contractor's staff, labour etc., if required.
- After completion of job to the satisfaction of Engineer-In-Charge, contractor has to clear the site of all surplus materials.
- Sample of materials as mentioned in specifications shall be approved by Engineer-in-Charge before execution.
- To prepare necessary approach to point of work for movement of manpower, materials, equipment, tools & tackles, if required.
- To provide one year guarantee/warranty for the tube well from the date of successful commissioning of the system
- To provide quality test report of water from NABL certified Lab.
- To provide bore log report during boring work.
- All types of statutory approval required in boring work shall be at the end of the contractor and charges of the same shall be included in item rate, if applicable.

However, it does not limit the scope as mentioned above. Anything and everything required for satisfactory completion of work but not specifically covered in the scope of work as mentioned above shall be arranged by the contractor at his risk and expense.

#### **2. SCHEDULE OF QUANTITIES & VARIATION IN QUANTITY**

The work is based on an item-rate work order in which quantities may vary on either side upon actual execution based on approved specifications & drawings. However, the rate shall remain firm for overall variation (increase/ decrease) in actual executed value of works upto 25% on either side of order value after adjusting savings, if any, due to deletion/non-execution/less execution of items mentioned in schedule of quantity. Some items may be added or deleted/ deviated / modified, if required, for proper completion of work, at the discretion of Jharkhand State Milk Co-operative Producers' Federation Ltd. (JMF)

#### **3. QUALITY**

The quality of work shall be first class and strict adherence to the specifications shall be insisted upon. Contractor shall be responsible for line, level and workmanship for work executed. No deviation from the specifications shall be tolerated at any stage during the execution of work and any work found defective and not up to the specifications shall have to be redone at contractor's risk, cost and responsibility. The contractor will take prior approval of all the materials before incorporating the same in the works.





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#### 4. **WATER AND ELECTRICITY**

Contractor has to make his own arrangement for water supply and electricity.

#### 5. **TIME LIMIT**

The time limit for the completion of job is **30 days** from the date of issue of work order.

#### 6. **LIQUIDATED DAMAGES**

In case of delays attributable to contractor, JMF will recover an amount @ 0.5% of contract value (total executed value of complete works) per week of delay subject to maximum of 10% of contract value (total executed value of complete works).

#### 7. **DEFECT LIABILITY PERIOD**

The defect liability period shall be **twelve months** from the date of actual completion of works. Any defect found during this period shall be attended by the contractor at his own cost.

#### 8. **DELETION OF ITEM**

JMF reserves the right of excluding any item of work from the scope of contract and entrust the same to any other agency for which no compensation shall be payable and no reasons shall be assigned thereof.

#### 9. **RATES**

The unit rates quoted shall include the cost of all material, labour, supervision, tools, tackles, mobilizing of resources, transportation of materials, GST and any other taxes, if any, and any other cost not specifically mentioned herein but to be incurred by you for the timely completion of the work. The unit rates quoted shall be firm and inclusive of all taxes for the entire duration of the work order.

#### 10. **VALIDITY OF BIDS**

The bids shall be valid for **120 days** from the last date of submission of offer mentioned in the enquiry.

#### 11. **RUNNING / PERFORMANCE / RETENTION AMOUNT**

Running / Performance Security Deposit @ 5% of final work done value shall be recovered from each bill & shall be refundable after one year from actual completion date & satisfactorily maintenance of defects observed during defect liability period.

#### 12. **Extra items**

It shall be binding on Contractor to execute any extra-items which are found necessary by JMF during the course of execution of the works for its proper completion and the rate for the same will be mutually settled, based on actual landed material cost and labour cost plus 15% towards overheads & profits.

#### 13. **Payment Against RA Bill**

100% Payment shall be released against RA bill to be submitted by the contractor in duplicate along with measurements of completed works and abstract of the cost. Maximum one RA bill and one final bill will be permitted for entire work, irrespective of the value of RA bill.

#### 14. **Safety Precautions**

The contractor will implement all suitable precautionary measures to avoid the spoiling of works done by other contractors. All reasonable co-operations shall be extended to other contractors working at site, so that their works are not suffered.



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## 15. Statutory Compliance

The contractor would be responsible for all statutory Laws, Acts, rules & regulations including Workmen Compensation Act, Contract Labour Act, PF/ESI Act etc.

## 16. Arbitration

The venue of arbitration shall be Ranchi (Jharkhand) and courts at Ranchi alone shall have jurisdiction regarding any matter arising out of this work order/contract. The arbitration proceedings shall be governed under the provisions of the Indian Arbitration & Conciliation Act, 1996 and the rules thereunder or any statutory modifications thereof for the time being in force.

## GENERAL SPECIFICATIONS FOR SINKING OF TUBE WELL

1. Terms and conditions as laid down in work contract as well as the following clauses, as mentioned hereinafter, will be binding on this contract. Unless specifically mentioned otherwise, all works shall be governed by latest revisions of IS 2800 (Part I):1991 & IS 2800 (Part II): 1997 with respect of workmanship, quality & method of testing.
2. **The contractor shall make or repair the approach roads at his own cost, for which no extra amount will be payable to him.**
3. The area of operation will be available for use to the contractors till the final yield test of the tube well is carried out. After the completion of the work, the contractor shall remove all plants and machinery including all ancillary structures and shall make good to the extent feasible and reasonable.

## 4. **GENERAL REQUIREMENT:**

**Selection of site** – The site where the owner wants to sink the tube-well should be examined by the driller and, if necessary, a more suitable alternative site should be selected, so that the chances of success of the tube well might be increased. Any previous data available with the drilling agency or owner regarding nearby wells, tube wells or borings made for any other purpose should be made use of to evolve suitable procedure for drilling, developing, testing, etc, of the tube well to be sunk.

## 5. **DRILLING METHODS:**

- a) **Direct Mud Circulation:** A drill bit is rotated mechanically through a hollow shaft known as drill pipe, circulating prepared drilling mud (usually bentonite with certain chemicals added to give it a gelling quality) under pressure, through the drill pipe. This process of circulation lubricates the bit, carries in suspension the drilled cuttings and also plasters the wall of the hole to prevent it from caving in.
- b) **REVERSE CIRCULATION METHOD:** A string of drill pipes with a drill bit at the bottom is rotated by mechanical means. Plain water or a fluid of gelling quality, depending on the strata conditions, is circulated to prevent the hole from caving in and for sucking up the drill cutting through drill pipes.

**Drilling:** The tube well shall be constructed by hydraulic rotary drilling either reverse circulation rotary drilling method or by direct rotary drilling method. The drill bit size should be not less than 210 mm diameter in either of the method of boring. The diameter of drill bit will be measured after completion of the drilling work by engineer-in-charge and certify. Drilling should be done 8 to 10 m below from last water bearing zone or sand formation. If bentonite is required for drilling, contractor has to manage at his own cost. The plain and strainer of 210 mm diameter of MS casing assembly will be lowered upto the collapsible formation. The drilling will be carried out of 200 mm dia in the hard rocks upto the desired depth subsequently.

## 6. **DESIGN AND LOWERING OF PIPE ASSEMBLY:**



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**Design of Pipe Sizes and Lengths** – From the data collected about the nature of the aquifers met, the size and lengths of the housing pipe, plain pipes, slotted or perforated pipes or screens, and bail plug are determined. Though it is ideal to have the length of the slotted or perforated pipes or screens exactly equal to thickness of the aquifers being tapped, in practice the actual length of each of the housing pipes, plain pipes and the slotted or perforated pipes or screens can be kept as multiple of the length of the pipes available in the market, provided there is no special difficulty, such as intrusion of water from a saline aquifer and gradation in the texture of formation material.

**DESIGN OF SLOTS OR PERFORATIONS:** - The size of perforations or slots for strainers are so designed that the total opening available is adequate to pass the water in filtering from the aquifer without exceeding the critical velocity. It is recommended that the slots or perforations are milled so that the strength of the pipe is not impaired. Slots should be rectangular in shape in preference to being square or circular and it is desirable that they are tapered with the smaller opening on the outside of the pipes so that the solid particles through the outer lip do not clog it but pass into the pipes. The outer lip should be sharp-edged.

**USE OF STRAINERS** – In case of mesh type strainers, the space between the strainer material and the slotted or perforated tube should be such that the total area of the strainer opening is equal to the area of the slots or perforations so that the velocities of flow through the slots or perforations and the strainer opening are equal. The strainer materials and the pipes should be separated by an adequate distance with steel flats or similar contrivance.

When patented strainers are used, the manufacturer's directions should be followed to obtain the best results.

The circumferential, longitudinal or spiral seams of the metal casing should be welded in such a manner as to develop strength nearly equal to that of the parent metal. It is preferable to use seamless steel tubes.

The metal casing should be free from defective material or poor workmanship and should be of standard size. The pipe should be coated both inside and outside with a protective coating of bituminous base material.

Depending on the sub-stratum formation the tubewell assembly may have to be compound with non-standard length of pipes both for casing tube well pipes and for strainer portion. The contractor will be paid according to the actual length of pipe used in the assembly and lowering in the borehole.

No extra claim for cutting pipes, welding etc. will be entertained. This should be included in relevant items of work.

## 7. GRAVEL PACKING OF TUBE WELL

All gravel shall consist of hard well-rounded particles reasonably uniform in diameter and shall be of a size determined after analyzing the character of the water bearing formation packed. The thickness (normally a minimum of 100 mm) of the gravel shroud around the screen should be sufficient to ensure that no sand flows into the shroud under normal operating conditions.

**8. CEMENT SEALING:** Contractor must do cement sealing with necessary cement slurry the cement sealing should be done in presence engineers in-charge.

**9. CLAY PACKING:** After doing cement sealing clay packing must be done with better quality of clay up to the ground level and after that machine should shift from the bore point.

## 10. DEVELOPMENT OF TUBE WELL:





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After the completion of the tubewell the contractor shall have to develop the tube well in the following manners.

The well shall be developed either by surging, including washing and agitating, or by pumping and back washing with an air lift. Any other acceptable method may also be adopted. This development process shall be continued until the stabilization of sand and gravel-pack is completely assured.

**11. PUMP TEST OR YIELD TEST:** After the development the tube-well starts getting specified quantity of clear and sand free water the contractor has to give pumping test as provided in schedule of items and for this purpose he is to pump water from the well continuously for a period of not less than 8 hours at a minimum rate of the guaranteed yield. With all equipments like motor pump, cable, panel, column and all fittings whichever is necessary for pump test.

**12. WATER TEST REPORT:**

Water shall be collected after completion of boring work and same should be sent for chemically and bacteriologically analysis from NABL Certified Lab, as desired by the Engineer-in-Charge. No extra payment will be made on this account.

**13. SPECIFICATION FOR PUMP**

Depending upon the discharge and drawdown noted during the tests, a suitable submersible pump shall be fitted in the tube well or as per the SOQ.

**14. INFORMATION TO BE FURNISHED BY THE DRILLING CONTRACTOR**

When offering to sink a tube well, the drilling agency shall furnish the owner with the following information:

- a) Suitability of the site proposed by the owner, if a more suitable point, other than the one proposed by the owner exists or is available, it should be suggested;
- b) Diameter & Depth of tube well proposed;
- c) Likelihood of increasing or decreasing the depth given at (b) above;
- d) Method of drilling
- e) Sizes and types of pipes or strainers, or slotted pipes, etc, proposed to be used;
- f) Probable yield or water to be obtained;
- g) Guarantees with regard to the verticality of tube well and sand content in discharge in parts per million at the time of handing over the well; and
- h) Any other information and conditions.





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## ANNEXURE-III

### FINANCIAL BID

**Name of work:** Drilling & Development of 2 nos. Bore well complete with pump & piping etc. at **Medha Dairy Plant, Hotwar, Ranchi, Jharkhand**

#### SCHEDULE OF QUANTITIES FOR ONE BORE WELL

Sl. No.	Name of the work	Qty.	Unit	Unit Rate (Rs.)	Total Amount (Rs.)
1	Bore (Reverse Rotary Method) Dia - 200mm	25.00	m		
2	Bore (DTH Method) Dia -150mm	280.00	m		
3	UPVC Pipe Casing Dia - 200mm	25.00	m		
4	Lowering of UPVC Pipe Dia - 40mm	305.00	m		
5	Submersible Pump 1.5HP 3-Phase (KSB, Crompton, Kirloskar, Wilo) with 14 stage with L&T starter	1	Nos.		
6	Gi Rope Dia - 6 mm	300.00	m		
7	M S Cap - Thickness - 5mm	1	Nos.		
8	Cable Flat (3core x 2.5mm)	300.00	m		
9	GI Pipe TATA	3.00	m		
10	Labour Charge Casing work	25.00	m		
<b>Subtotal</b>					
GST @ %					
<b>Grand Total</b>					
<b>Total Amount for Two Borewells</b>					
<b>Approved Make:</b>					
<b>GI Pipe:</b> (TATA / JINDAL)					
<b>UPVC Pipe:</b> (SUPREME/ PRINCE)					
<b>Submersible Pipe:</b> (KSB, Crompton, Kirloskar, Wilo) with 14 stage Water cooled					
<b>Cable:</b> Havells, Polycab, KEI, RR Kabel					

#### NOTE:

The above price should be on FOR basis and complete with GST and all other taxes/cess, any statutory levies, royalty, transportation, insurance etc.