

Jharkhand State Cooperative Milk Producers' Federation Ltd

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TENDER DOCUMENT FOR MACHINE DRILLING/BORING OF 6.5" DIA BORE WELLS WITH GI CASING AT MEDHA DAIRY PLANT, HOTWAR, RANCHI

TENDER NO: JMF-PP-Bore Wells-/2019-20/018



Date of Publish of Tender : 13 June 2019 Last date for submission of Sealed Tender : 27 June 2019 by 14:00 hrs

Name of Tenderer: _ Address:		
<u></u>	 	
Telephone no:		
Email Id		



TENDER NO. JMF-PP-Bore Wells-/2019-20/018

BIDDING DOCUMENT TENDER FOR MACHINE DRILLING/BORING OF 6.5" DIA BORE WELLS WITH GI CASING AT MEDHA DAIRY, HOTWAR, RANCHI OF JHARKHAND STATE COOPERATIVE MILK PRODUCERS FEDERATION LTD

(COMPLETE BIDDING DOCUMENT)

Time schedule for tender process:

Date of publication of tender	13 June 2019		
Distribution of tender document commence from	13 June 2019		
Last date for distribution of tender document	22 June 2019		
Last date for receipt of duly filled in tenders	27 June 2019 by 14:00hrs		
Date and Time of the opening Technical Bids	27 June 2019 16:30hrs		
Date and Time of the opening Financial Bids	will be notified to the technically qualified		
	tenderers		

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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INTRODUCTION:

When the famous White Revolution of the seventies and eighties – Operation Flood - swept through the country, Jharkhand, then a part of undivided Bihar served merely as a market and saw little of its benefits. Even though India stood self-sufficient in milk production, the eastern state of Jharkhand still depends on import of milk from other states. It was only in June 2013 when Jharkhand State Cooperative Milk Producers' Federation Ltd. (JMF) was formed by the Government of Jharkhand, with an aim to promote dairying as a source of livelihood in the rural parts of the state and propel Jharkhand towards self-reliance in milk and milk products.

JMF under the management of National Dairy Development Board (NDDB) started the milk procurement, processing and marketing activities in the state after taking over the existing Government Dairy at Ormanjhi in August 2014 and subsequently three other dairies at Deoghar, Koderma & Latehar. In 2016 NDDB supported in commissioning of a 1 Lakh Litre per day State of the Art Dairy Plant at Hotwar for the Jharkhand Milk Federation.

JMF has started milk procurement from 12 TLPD in August 2014 and reached up to 130 TLPD in March 2018 and has grown by more than ten-times in last three and half years of its operation. Today JMF is providing an alternative livelihood options to around 20000 rural families but initially, there was a challenge to establish JMF as a reliable institution for milk producers of Jharkhand with many inherited issues like low production and marketable surplus of milk, low interest of farmers towards animal husbandry (milch), dominance of middleman, poor dairy infrastructure etc. To overcome from such unfavourable conditions, utmost cares have been taken to maintain transparency at all levels which is the first and foremost value inherited from NDDB. As a part of maintaining transparency, we have provided milk sample testing facility to all individual pourers in their presence step by step and payment through their individual bank account. By doing this we have given fair and transparent system at village level, remunerative milk price to pourers and avoided involvement of middleman. Farmers have taken it as an opportunity and started milch animal rearing. As a result, milk procurement went up.

NDDB also agreed to lend its brand "Mother Dairy" – which is renowned for its high-quality milk and milk products in the country – to support local brand "Medha". It not only helped the brand to get established but also enable it capture a reasonable share of the Jharkhand Milk market. It is due to the consistent support that Medha receives, it is able to market about 1 lac litres of milk every day. We are thankful to and proud of the people we are associated with in this journey. It is extremely delighting to be able to touch and enrich so many lives at the same time.

NOTICE INVITING TENDER:

The Jharkhand Milk Federation (JMF), Ranchi invites sealed envelope from reputed Agencies/service providers for Drilling of 02 (Two) nos. of 6.5" Dia Bore wells in the premise of Medha Dairy, Hotwar, Ranchi. 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 27 June 2019 by 14:00 hrs in a sealed cover/envelope super-scribing clearly with "Offers for Machine Drilling/Boring of 6.5" Dia Bore wells with GI Casing at Medha Dairy, Hotwar, Ranchi".

The details of the tender are given below:-

- a. Last date & time for submission of bids 27 June 2019 (02:00 pm)
- b. Date & time of opening of Bid:
 - i. Technical bid: 27 June 2019 (04:30 pm) (in presence of the tenderers or their authorized representatives who choose to be present).



C.

JHARKHAND STATE COOPERATIVE MILK PRODUCERS' FEDERATION LIMITED

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- ii. Financial bid: Will be notified to the technically qualified tenderers
- iii. Bid validity: 60 days from the date of opening of financial bid

Correspondence Address: JHARKHAND STATE COOPERATIVE MILK PRODUCERS'

FEDERATION LTD, FARMERS TRAINING CENTRE, HEC, SEC- 2, DHURWA, RANCHI – 834004

Tender documents for Drilling of 02 (Two) nos. of 6.5" Dia Bore wells in the premise of Medha Dairy, Hotwar, Ranchi can be obtained from office of the Purchase Officer from **13 June 2019 to 22 June 2019** on all working days between **11 A.M. to 4 P.M.** The tender document is not transferable to any other person. The tender document can also be downloaded from the JMF"s official website <u>www.jmf.coop</u>

Terms and Conditions

- 1. All entries in the tender form should be legible and filled clearly. If the space for furnishing information is insufficient, a separate sheet duly signed by the authorized signatory may be attached. No overwriting or cutting is permitted in the Price Bid Form. In such cases, the tender shall be summarily rejected.
- 2. The tenderer must quote the prices of services on F.O.R. at site basis inclusive of mobilization, packing& forwarding, transportation charges, taxes etc.
- 3. The tenderer needs to quote in the prescribed format enclosed as **Annex –I** "Proforma for filing Tender".
- The tenderer must follow the specifications while quoting for Drilling /Boring of 02 (Two) nos of 6.5" Dia Bore wells with 7" Dia GI Casing at Medha Dairy, Hotwar, Ranchi as mentioned in enclosure at Annex II.
- 5. The quoted rate should be on F.O.R. at site basis inclusive of mobilization, packing forwarding, transportation, taxes etc.
- 6. The Rate must be quoted in enclosed format "Annex-III (Commercial/Financial Bid)".
- 7. The tenderer must mention GST and PAN details as requested in the proforma (enclosed as Annex I), falling which the offer of the tenderer will be summarily rejected.
- 8. Payment terms: 100% within 30 days from the date of completion of works/Jobs.
- 9. The bidder shall pay Bid Security (EMD) of Rs 10,000/- (Rupees Ten thousand only) along with the technical bid by Demand Draft in favour of "JHARKHAND STATE COOPERATIVE MILK PRODUCERS' FEDERATION LTD" drawn on any Nationalized Bank and payable at RANCHI. Bids received without Earnest Money deposit (EMD) shall stand rejected and thus shall not be considered for evaluation etc at any stage.
- 10. The bid security (EMD) without interest shall be returned to the unsuccessful bidders after finalisation of contract.
- 11. The EMD deposited by successful agency will be adjusted towards Security deposit as demanded above. If the successful bidder fails to furnish the difference amount between Security Deposit and EMD within 30 (Thirty) days after the issue of Letter of Award of Work, his bid security (EMD) shall be forfeited unless time extension has been granted by "PURCHASER".
- 12. The EMD shall be forfeited if successful bidder fails to undertake the work or fails to comply with any of the terms and conditions of the contract.
- 13. 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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GENERAL SPECIFICATIONS FOR SINKING OF BORE WELL

1. <u>Scope of work</u>

- 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.
- Preparing necessary approach to point of work for movement of manpower, materials, equipment, tools & tackles.

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. 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.
- **3.** The area of operation will be available for use to the contractors till the final yield test of the bore 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 bore-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 bore well might be increased. Any previous data available with the drilling agency or owner regarding nearby wells, bore wells or borings made for any other purpose should be made use of to evolve suitable procedure for drilling, developing, testing, etc, of the borewell 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 bore well shall be constructed by hydraulic rotary drilling either reverse circulation rotary drilling method or by direct rotary drilling method. In direct rotary drilling method, the funnel viscosity 34 to 40 and sand contains not more than 5%, up hole velocity not less than 125 feet / min for better sampling and removing cuttings effectively for the interest of the progress of work. The drill bit size should be not less than 200 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 :

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.

- 7. **Cement sealing:** Contractor must do cement sealing as per Electro-logging report with necessary cement slurry having minimum 1.6 specific gravity (28 lit / one bag) by lowering 1.5" or 2" dia pipe upto the top of the gravel after measuring the depth of gravel. Cementing pipe must reach upto the specific depth shown in Electro-logging report. Measurement of pipe lowered for cement sealing must shown to engineers' in-charge. The cement sealing should be done in presence engineers' in-charge.
- **8. 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.

9. <u>Development of Bore well</u>:

After the completion of the bore well the contractor shall have to develop the bore 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. The discharge of water during development should correspond to the depression of 50 percent higher than the normal depression at which the bore well is later pumped on continuous duty. The final discharge at working depression obtained at the well should be free from sand during the operating test run. Where a depression of 50 percent higher than the normal depression of 50 percent so as to yield a discharge 20 percent in excess of the rated discharge.

10. Plumbness and Alignment

A bore well out of alignment and containing kinks, bends or cork-screw should be rejected because such deviations cause severe wear on the pump shaft, bearings and discharge casing and, in a severe case, might make it impossible to get a pump in or out.

Normally, bore wells are tested for verticality after the drilling is completed. However, in case of gravel-shrouded bore wells the verticality is checked immediately after the housing pipes are installed but prior to commencing the gravel filling.

In case of gravel-shrouded bore wells if the pipe assembly is found inclined in a slant position before filling the gravels, the assembly should be pulled in a desired direction by applying force through jacks or by other means with a view to rectifying the slantness and bringing the pipe assembly within the permissible limits of verticality. The gravel operation should be undertaken immediately after the verticality has been tested between by means of jacks or any other means to bring the pipe assembly within the permissible limits of verticality.

For wells encased with pipes less than 350 mm diameter, the verticality of the bore well shall have a deviation not exceeding 10 cm per 30 m of depth of the bore well and the deviation shall be a in one direction and in one plane only. The deviation of the bore well shall be determined according to IS:2800-1964 (Latest revision)

11. Pump test or Yield Test: After the development the bore-well starts getting specified quantity of clear and send 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.

The yield for the bore well will be measured with one 90^o V-notch reading being taken for every half an hour for a period of 6 hours after the development is complete. Measurement of



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yield may also be taken by a suitable orifice meter. The measuring device has to be supplied by the contractor free of hire charges or any other cost. The cost for the yield test and also the cost for supplying, fitting, fixing, and removing all pipes, specials, valves etc. after the test is over should be included in the item of yield test no extra claim will be entertained on this account.

The contractor shall quote Lump Sum rate for this item of yield test.

- **12.** The following measurements will have to be taken after the development
 - a) Static water level measured by direct method.
 - b) Discharge measured by use of orifice/ v-notch
 - c) The drawdown of water level during pump test measured by contractor.

The drawdown of water level during pump test measured should not be more 6 m.

13. FINAL TEST

Tests are conducted on the completed bore well:

- a) To find out the performance of the bore well in regard to yield and drawdown, and
- b) To select a suitable size and type of pump to be installed in the bore well.

Step Drawdown Test:

This test is conducted by installing a test pump in the bore well temporarily and pumping out water at various speeds or by throttling delivery sluice valve. At each rate of discharge, pumping is carried out at least for 30 minutes. If the water level and discharge are found to be fluctuating, development is carried out for some more hours, until the discharge becomes steady and sand content is within tolerable limits. The specific capacities of the well for various pumping rates is computed based on the step drawdown test data.

Discharge may be measured by any of the methods detailed in 11.2.5 of IS: 1710-1960.

14. SANITARY SEALING

For installations where water is to be used for drinking purposes, it is recommended that the annular space between the bore and the housing pipe be cement grouted up to 5 m below ground level or up to first clay bed whichever is obtained first and two gravel feeding pipes on either side of housing pipe to the full depth of foundation be provided if it is a gravel bore well.

15. TECHNICAL DATA :

Casing pipe : 200 mm dia. GI 3 mm thick casing pipe upto 100 feet CM (suitable for well depth up to 350 M) as per IS 12818-1992

Top caps: Used to keep the bore well closed after its completion until pump set is installed 6 mm plate with ring with 3 nos. of bolt.

Casing Clamp: One pair clamp of MS flat (100 mm x 16 mm) thick. Having fixing arrangement with 4 Nos. bolts & nuts & washers to be filled at the ground level of Casing pipe.

1.5 m long bail plug of MS blind pipe with close bottom and lifting hook of 20 mm dia bars.

16. INFORMATION TO BE FURNISHED BY THE DRILLING CONTRACTOR



When offering to sink a bore 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 bore well proposed;
- c) Likelihood of increasing or decreasing the depth given at (b) above;
- d) Method of drilling
- e) Sizes and types of pipes, 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 bore 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-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	
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 I				
		Branch Address:				
		Account No. : IFSC Code :				
17	Documents to Be Attached	1. Copy of Registration + PAN Copy + GST Regn.				
		2. ISO Certificates3. Autho. Dealership				
		4. Fin. Sta	tements t Brochures 6. Cor	w of DO's (Mis	5)	
Recon	nmendation:		t brochures o. Cop	<u>y 01 FU S (14111</u>		

Seal & Sign. Of Vendor

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A typical proforma is given below to furnish the details:

RATED	DEPRESSION	SAND IN ppm	TOTAL	SAND IN	DISCHARGE AT 1.5
DIS-	AT THE	AFTER 20	HOURS OF	ppm AT	TIMES THE NORMAL
CHRGE	RATED	MINUTES OF	RUN	THE END	DEPRESSION OF 20% IN
	DISCHARGE	THE START		OF THE	EXCESS OR RATED
		OF THE		TEST	DISCHARGE IF 50%
		PUMP			EXTRA DEPRESSION
					CANNOT BE ARRANGED.

SAND IN ppm AFTER 20 MINUTES OF THE START OF PUMP	TOTAL HOURS OF RUN	SAND IN ppm AT THE END OF THE TEST	STATIC WATER LEVEL	PUMPING WATER LEVEL



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ANNEXURE-III

Ref. No: JMF/PUR/2019-20/.....

Dated:/...../.....

(COMMERCIAL/FINANCIAL BID FOR BORE-WELL)

Schedule of quantities for One Bore well

SI. No	Description of work	Qty	Unit	Rate (Rs.)	GST (%)	Total Amount (Rs.) (Incl Tax)
1	Drilling of 6.5"dia bore with reverse rotary rig, in any type of soil including arrangement of water for drilling, making pits for collection of water and filling them after completion of bore well complete in all respects. Rate shall include collection of samples of strata at each 3 m interval or at any change of strata, drying the same, pecking, labelling and handing over to Engineer-in-charge inclusive of use of all tools and tackles.			(10.)		
a)	GL to 600 feet below GL	600	feet			
b)	600 feet below GL to 900feet	300	feet			
c)	900 feet below GL to 1000feet	100	feet			
d)	1000 feet below GL to 1200 feet	200	feet			
3	Supplying, fitting and lowering 3 mm thick 7.5" inner dia GI casing pipe of Jindal/MST make, up to required depth as per direction of the Engineer-in-Charge No wastage of pipes will be paid separately.					
	a) 200 mm outer diameter pipes	100	feet			
4	Supplying, fitting and fixing 200mm diameter 6mm thick MS cap on the top of pipe including painting as per specification.	1	No			
5	Washing and developing the bore well with the air compressor and furnishing yield test by continuous pumping with air compressor till the availability of sand free clear water or as specified including cost of fuel and necessary equipment etc. complete.	1	Job			
6	Carrying out yield test of the bore well with over pumping unit as per specifications or directed by the Engineer-in-charge.	1	Job			
	Grand Total (in Rs.)					

Amount for one bore-well	: Rs.
Discount/Rebate	: Rs

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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.

*The total rate should include GST, P&F, Freight/transport, Insurance etc. delivered at Site.

I / We hereby declare that the information furnished above is true and correct.

We agree to supply the above goods /materials in accordance with the scope and technical specifications mentioned above.

"BIDDER TO FURNISH STIPULATED DOCUMENTS ALONG WITH TENDER IN SUPPORT OF FULFILLMENT OF TENDER CRITERIA. FURTHER CORRESPONDENCE IN THIS REGARD WILL NOT BE ENTERTAINED FOR ANY REASON. NON-SUBMISSION OR INCOMPLETE SUBMISSION OF DOCUMENTS MAY LEAD TO REJECTION OF OFFER."

Date:

Place:

Tenderer Signature & Seal Name: Designation