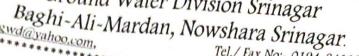
Office Of The Executive Engineer Jal Shakti (Phe) Deptt.

Ground Water Division Srinagar



E-mail: - phegwd@yahoo.com, Tel./ Fax No:- 0194-2411285

Mys Chinar Drillers, Gowkadal, Srinagar. Prop: Shabir Ahmad Reg. No of Rig: RJ-06-EA-6811 Cell No: 9419412904 e-mail:chinardrillers9@gmail.com

Advertised Cost: Allotted Cost: Time of completion:

Major Head:

Rs. 34.85 Lacs Rs. 3350112/-

45 days District Capex

Allotment Order No: JS-PHE/GWDS/ DATED: - 04-11-2023

Allotment for Construction of Gravel Packed Production Well at WSS Babagund, Pulwama under Ref: 1). Your tender in response to this office e-NIT NO. PHE/GWD/16 of 2023-24, issued vide endstt.

No:- JS-PHE/GWDS/Corrs./ 3005-3020, dated:-08-08-2023 & Tender I.D No: 2023_PHE_225499_1. 2) The Distt. Development Commissioner Pulwama's Order No: 23/ DDCP of 2023 Dated: 27.05.2023

Dear Sir,

For and on behalf of Lieutenant Governor of Jammu and Kashmir, the contract Construction of Gravel Packed Production Well at WSS Babagund, Pulwama, is allotted to you after negotiation of rates with the contract

S.No	Lacs Fifty Thousand to you after ne	ontine	········	constru	action c	of Gravel
1.	Boring/Drilling of bore hole of 450-550mm dia for lowering of 250mm nominal 2800(part1), including collecting samples from different strata, preparing equipment tools plant	Unit	Only	on the		
1.	equipment tools, plants and machineries required for the job, all complex of all kinds of a surface of all complex of a surface of all complex of a surface of all complex of a surface of	Mtr	90	Rate		ount
	Boring/Drilling of bore hole of 450-550mm dia for lowering of 250mm. Dia.Casing/Strainer pipe assembly by suitable suitable as per 2800(part).			11300.	00 Rs. :	1017000.00
2	equipment tools, plants and machineries required for the job, all complete as per ground level. (The drilling depth may increase or decrease at the time of execution subject to 250mm).	Mtr	40	12100	0.00 R	s.4,84,000.00
3	providing gravel fine/medium/coarse in required grading and sizes as per active	g	um 2	26 58	300.00	Rs.1,50,800.00
4	Supplying, assembling, lowering and fixing in vertical position in bore we socketed/plain ended casing pipes of required dia, conforming to 1S: 4270 reputed & approved make, including painted with outside surface with two conforming to approved brand and manufacture including required & labour charges, fitting and accessories, all complete for all depths, as direction of Engineer—in-charge. 250mm nominal dia having minimum thickness 7.1 mm. (The length of the casing pipe may increase or decrease at the time of exect of work as per the approved Casing Diagram).	of pats ared per wall	Mtr	100	7000.00	
					1	

-						/	
	ERW (Electric Resistance Welded) Fe 410 plain slotted (having lot of 1.6/3.2mm) mild steel threaded and socketed/ Plain bevel ended pipes (ty of required dia, conforming to IS:8110 of reputed & approved make having thickness not less than 7.1 mm including painted with outside surface with coats of anticorrosive bitumastic paint of approved brand and manufactional depths as per direction of Engineer—in-charge. 250mm reminal size dia. (The length of the casing pipes.	pe A) g wall h two cture te for		4		30	The Self
	(The length of the casing pipe may increase or decrease at the time of executors of work as per the approved Casing Diagram). Development to the tube well in accordance with IS: 2800 (Part1) and IS: 11 to estable in maximum rate of usable water yield without sand content (beyonemissible limit) with required capacity air compressor, running the compressor for required time till well is fully developed measure yield of well by "V" notch method or any other approved method, measure static level and draw down etc by step draw down method collecting was samples and getting tested in approved laboratory. Job includes disinfection tube well, all complete including required hire &labour charges of compressor tools and accessories etc all as per direction of Engineer—in-charge the grouting and sealing of tube well has to be done to ensure safe sanitate conditions. The well casing shall be anchored with ISMC-150 and CC-Block The CC-Block shall be laid of size (2x2x1) meter in M-15 mix, excluding the annular Dia of the well and slopping away from it to prevent contaminated wat flowing back into it. The casing pipe has to be anchored by welding ISMC-15 steel bracing of 2-meters length each (04 no. bracings or channels) with clean and sufficient welding area, bracing embedded within the CC-Block as per the directions of the Site Engineer.	ing ing ter of air ge. July kk. he eer 60 ts ee	ob	01	200000	.00 Rs. 2000	00.00
7 Times as slared as slare	The job envisages drilling a 125mm diameter test bore well using an Air Rotar Drilling Rig Unit well before the construction of actual production well. The drilling will be performed in various soil conditions, including boulders, rocks collapsible strata, saturated soils, and artisan conditions, using ODEX/DTF attachments. The objective is to investigate groundwater both in terms of quality and quantity, by tapping into sufficient aquifer zones. The job encompasses the cost of shifting drilling accessories, tools, bits, casing thoe, consumables such as fuel and lubricants, as well as skilled and unskilled abor. Unforeseen items are also included. Additionally, the cost covers the equired pipe materials (MS 125mm), lowering and welding of the casing seembly every 10 feet until the desired depth is reached. The casing will be otted according to site requirements and as directed by the site engineer. Is pipe diameter: 125 mm asing pipe according to IS 4270: 2001 rilling method: Air Rotary Method imple collection of strata after every 10 ft for examination expartmental experts, including a Hydro geologist whose expenses will be evered by the firm, will inspect the progress at each stage to determine aquifer ness. The construction of the production well will be decided based on the tology analysis of the test bore, duly authenticated by the site engineers, dro geologist, drilling staff, and the contracting agency. The decision to struct a full-fledged production bore hole will be made after proper testing development of the investigation well, ensuring the quality and quantity of error.	e I	130	4	600.00	Rs.5,98,000.0	00
Onl	FAL (Rupees: Thirty Three Lacs Fifty Thousand One Hundred & Twelve					Rs.3350112.00	,

Head Draftsman

Tech: Officer

Exen.

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Allotment Order No: JS-PHE/GWDS/ 44 of 2023-24

TECHNICAL SPECIFICATION

Site Selection:

The bidders shall gather information regarding Tube wells and Dug wells, existing in the vicinity of the proposed sites like their depth, formation encountered, discharge and static water level, wherever possible. As the tender is for fixation of rate contract, list of District and Division wise sites shall be communicated, separately.

On initiating the drilling process, the Contractor is at liberty to make the assessment for availability of adequate discharge of minimum 4000 GPH at the proposed site. For this purpose the bidder shall be free to undertake the electric resistivity mapping of the proposed site and seek an opinion from a hydro-geological expert, who shall be registered with the CGWB or with the Government Organization of the UT of J&K. The charges for this exercise shall be borne by the contractor. However the above exercise shall necessarily be undertaken in presence of Departmental Engineers.

Thereafter, the data regarding strata obtained from ERM mapping shall be compared with the strata chart of the nearest existing well. After satisfying himself about the feasibility of the site for drilling of production tube well, the firm shall start the work at site and if the discharge of the well is below the minimum 4000 GPH discharge, the well shall not be taken over by the concerned Division and no payment shall be made in favour of the bidder.

In case the bidder is not satisfied about the feasibility of proposed site on the basis of ERM etc the bidder is free to choose/propose a more suitable site, which in 'any case shall be acceptable to the Department as well.

In both situations, the site plan and the preliminary design shall require approval of competent authority i.e. Superintending Engineer PHE Mechanical Circle (North) Srinagar.

In this connection the bidder shall specify the following:

- a) Whether a test bore hole is proposed and if so, its diameter and depth, and also depth of production tube well
- b) Likelihood of increase or decrease of the depth specified above. Method of drilling with size of bore in different depths.
- c) Types of plain pipe with size, wall thickness and slotted/strainer pipes with opening, may be mentioned.
- d) Guarantee with regard to the verticality of tube well and sand content (ppm) in the discharge from the well at the time of handing over.
- e) Development methods shall be adopted as per the guidelines of CGWB

02. Construction of Production Tube Well:

Based on the exercise conducted during the site selection detailed above, Construction of Production Tube Well shall be initiated by Direct Rotary up to the desired depth as per the code of practice for Construction and Testing of Tube Wells/Bore Wells (Second Revision) IS 2800 (Part-I): 1991 and IS-2800 (Part-II) 1979 in all kinds of soils, boulder, rock, collapsible Strata, saturated soils etc. with the requisite accessories required thereof, including Bentonite mud, foam, water lubricants etc.

The size and length of slotted/strainer Pipes are selected according to the actual requirement and Strata met with in line with the relevant IS Code and the expected discharge and depth of Tube Well.



The Well casing must be large enough to house the pump and should allow sufficient clean the for installation and efficient operation. The diameter of casing shall not be less than 250 state with the ckness of 7.1mm.

The Well Casing Pipes conforming to IS-4270.4000 conforming to IS-8110:1985 electric shall be seen to the pump and should allow sufficient clean to the pump and should allo shall 1 ERW with thickness as specified in IS 4270, Double Bituminous Coated and Bevelled as per IS code. The welding electrodes used for welding the casing Pipes shall confirm to the relevant Stand. I IS codes. The jigs and fixtures for lowering the casing Pipe shall be provided by the firm.

The ball plug or bottom plug, the clamp for holding the casing Pipe and Well cap shall be fabricated

out of >-226:1975. The verticality and alignment of the Well and casing Pipes shall be tested as per

IS-280 Part-II): 1979.

04. Vertic lity of Tube Wells:

Tube wells must be perfectly vertical by using a plumb disk. Two disks made out of 3mm thick shell plate are connected together by a rod of 25mm diameter and 3 m long tightened with the help of outs at the ends. Some holes are punched in plates to facilitate immersion in water.

A knob is fixed on the top nut to which a thin steel wire is attached. The disk is suspended into the tube by the wire passing over a pulley on a tripod. When the disk is lowered into the pipe, the wire is exactly in the center of pipe. When the disks are further lowered down and if the vall pipe is not truly vertical, the wire will deviate from the centre and that shall be indicated at the top of pipe.

Absolute verticality is ideal for installation of Submersible Pumping Units.

05. Annular Seal & Well Cap

Sealing the well protects the well from contamination. The annular space must be sealed as per relevant IS codes to prevent any surface contamination from migrating downward and contaminating the water supply.

I vermin-proof well cap shall be designed to keep animals, contaminants from entering the well. I shall be equipped with rubber gaskets and screened vents to ensure air circulation. Coverings shall be custom made to the respective diameter of each well.

06. Well 1 evelopment:

Well development is the process of removing fine sediment and drilling fluid from the area immediately surrounding the perforations. This increases the well's ability to produce water and maximize production from the aquifer. The Well development shall be purely as per the relevant IS codes required at site to be decided by the Site in-charge JE/ AEE.

07. Yield Test:-

Tube well shall be tested for yield by the bidder as per IS: 2800-1979. Yield test is to be performed by the firm in order to establish the following Data;

Static \\ ater Level.

Dynanic Water Level.

Draw- Own

Constant Discharge of the Well.

Safe Yield of the Well for installation of Pumping Unit.

A ler drilling and developing a well, bidder must stabilize the well with Pumping for at least 30 Hours for Handing Over the Well to the concerned Territorial Division.

hours, water removal should be stopped.

ded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurements must be taken at specific time intervals for a zeroded. Measurement for a zero

capacity equal to, or less than, the rate at which the well can supply water for an extended period of time without lowering the water level below the pump intake. That pumping rate is considered the long-term, safe and. sustainable pumping rate for the well.

The bidder shall disinfect the tube well with chlorine. The concentration must be at least 200 milligrams of chlorine per litre of water present in the well and must be left in the well for at least 8-Disinfecting the well: 12 hours to ensure any bacteria present are destroyed.

TERMS & CONDITIONS

- Defects Liability Period: The defects liability period shall be a period of 07 months which shall commence after the successful completion of trial run, the bidder shall be responsible to make good the defects and replace the defective parts in full or partly as per directions of site engineer at his own expense of the firm any defect in works which is noticed during the DLP. In case any defect remains un-attended by the firm at the completion of DLP, the department may extend DLP for such time as deemed fit for getting the defect rectified subject to a maximum ceiling of 06 months.
- Earnest Money: The earnest money enclosed with the tender in the shape of CDR No: 0413889 dated: 01-11-2023 for an amount of Rs. 1,74,000/= pledged to the Executive Engineer, (JAL SHAKTI) PHE Ground Water Division, Srinagar is adjusted towards performance security will be released in favour of the firm after successful completion of the job.
- Terms of payment: Subject to availability of funds 90% payment shall be released after successful completion of well as per the specifications laid only after verification from concerned Assistant Ex. Engineer, and Balance 10% shall be released after defect liability period.
- Failure to execute the work: In case the firm/agency fails to execute the job as per the terms and conditions of allotment order/NIT the earnest money deposited shall be forfeited. The earnest money shall be refunded in favour of un-successful tenderers immediately only after finalization of the contract, whereas it shall be retained in case of successful tenderer and treated as security deposit to be refunded after successful completion of the contract.
- Contractor dying, becoming insolvent or imprisoned: In the event of the death or insanity or insolvency or imprisonment of the contractor or where the contractor being a partnership or firm becomes dissolved or being corporation goes into liquidation, voluntary or otherwise, the contract may, in the option of the Engineer-in-charge, be terminated by notice in writing posted at the site of the works.
- Suspension of the works by the Contractor: In case of the Firm/Agency failing to execute the job the department has the right to get the work executed through some other firm/agency or of its own at the risk and cost of the defaulters.
- Availability of funds: The demand of funds under an appropriate head of account stands submitted to the concerned quarters and the payments shall be made only after the availability of funds. No claim for payment will be entertained till the funds are released. Moreover, a test report of the water is to be apprehended with the bill before payment.

- enalty Clause; In the event of the successful tenderer failing, declining, neglecting or delaying recution of work in time and in the event of any default or failure by the successful by the xecution of work in time and in the event of any default or failure by the successful tenderer or in the event of any default or failure by the successful tenderer in the department shall without tenderer in omplying with any terms and conditions of the contract, the department shall without prejudice to ny other remedy available to it under the law for the time being in force:
 - a) Terminate the contract after 10 days' notice. and /or
 - b) Recover the amount of loss caused by damage/failure or
 - c) Impose 0.5% per week subject to a maximum of 10%. .
 - d) Forfeit the earnest money deposit/security deposits.
 - 'axes and duties: The allotted rates are inclusive of all taxes/levies whatsoever applicable and ncluding of GST.
 - No Payment shall be made to the agency till the agency produces their GST No.
 - Agreement: This allotment is subject to the condition that the firm shall execute an agreement within the completion period of work, failing which the said allotment would be recommended or cancelation and the tenders would be floated afresh.
 - Before/after execution The firm shall have to take Geo-Tag photographs of Hand pump well before execution, during execution and after execution of work.

All other terms and conditions shall remain same as laid down in the above referred and PWD Form No.24 (Double)

> Executive Engineer, Jal Shakti (PHE) Deptt.

und Water Division, Srinagar. 🚿

Rates/Quantities/ Checked as per approved Comparative Statement

No: - JS-PHE/GWDS/Corrs. / 6394-36 Dated: - 04-11-2023

Copy to the:-

- 01. Chief Engineer Kashmir (Jal Shakti) PHE Deptt. Srinagar for favour of information, please.
- 02. District Development Commissioner Pulwama for favour of information, please.
- 03. Superintending Engineer (Jal Shakti) PHE Mechanical Circle North Srinagar for favour of information.
- 4-5. Executive Engineer Jal Shakti (PHE) Division Pulwama/ Shopian for information.
- 06. Assistant Executive Engineer (Jal Shakti) PHE Drilling Sub-Division 2nd for information.
- 07-09. H.A/ Head Draftsman/Assistant Accounts Officer divisional office for information.
 - File concerned.