

No.: PHE/MDNS/DB/
Dated: 16-08-2023 3612-19

M/s RD Enviro Engineers and Consultants Pvt Limited
Kishan Garh, Vasant Kunj, New Delhi-110070
GST No: 07AAGCR1125A2Z0
Cell No: 9313510382

Adv. Cost:	Rs 76.050 Lacs
Allotted Cost:	Rs 60.033 Lacs

Subject: Providing, laying and joining by welding of 200mm ND MS Pipe from Stage 1st to PST and handling, laying and joining by welding of departmental prefabricated, Medium Class GI pipe Rising Mains from clear water sump to 03 Nos. OHTs of WSS Shri Harikaran Gund under JJM.

Reference: 1. This office e-NIT No.: e-NIT No. 16 of 2023-24, S. No. 03 issued under endorsement No.: PHE/MDNS/DB/1619-24, dated: 17-06-2023.
2. Authorization awarded by Member Secretary DJJM Superintending Engineer Jal Shakti (PHE) Hydraulic Circle Baramulla/Bandipore HQ at Sopore issued vide No. DDCK/PIg/JJM/PHE/MDNS/DB/5205-08, dated: 08-08-2023.

Dear Sir,

For and on behalf of Lt. Governor of J&K UT contract for execution of "Providing, laying and joining by welding of 200mm ND MS Pipe from Stage 1st to PST and handling, laying and joining by welding of departmental prefabricated, Medium Class GI pipe Rising Mains from clear water sump to 03 Nos. OHTs of WSS Shri Harikaran Gund under JJM" is hereby awarded to your firm on the quoted/negotiated rates, as per 'General Terms & Conditions' and 'Schedule of cost and quantities' annexed herewith as under:

Annexure A: General Terms & Conditions.

Annexure B: Schedule of cost and quantities.

Encl. _____ leaves

Executive Engineer
Jal Shakti PHE Mechanical Division (North)
Sopore

Copy to the:

- Chief Engineer Jal Shakti (PHE) Department Kashmir, Srinagar for favour of information.
- District Development Commissioner _____, for favour of information.
- Superintending Engineer Jal Shakti (PHE) Mechanical Circle (North) Srinagar, for favour of information.
- Superintending Engineer Jal Shakti (PHE) Hydraulic Circle _____ HQ at _____, for favour of information.
- Executive Engineer Jal Shakti (PHE) Division _____, for favour of information.
- Provisional Head, TPIA JJM Kashmir, (WAPCOS Limited) Corporate Office 76-C Institutional are Sector-18 Gurugram-122015 (Haryana) for favour of information.
- Assistant Executive Engineer Jal Shakti (PHE) Mechanical Sub-Division _____ for information necessary action.
- File concerned.

ANNEXURE "A" to this office Allotment Order No: PHE/MDNS/DB/361-19 dated: 16-8-19

Name of work: Providing, laying and joining by welding of 200mm ND MS Pipe from Stage 1st to PST and handling, laying and joining by welding of departmental prefabricated, Medium Class GI pipe Rising Mains from clear water sump to 03 Nos. OHTs of WSS Shri Harikaran Gund under JJM.

General Terms and Conditions

- Completion period:** The work shall have to be completed by you strictly in accordance with the approved specification/departmental requirements under the close supervision of the concerned Sub-Division within a period of **90 days**, from the date of issuance of allotment order, failing which penalty as per the relevant clause below shall be imposed.
- Third Party Monitoring:** The allotted works shall be subject to check by the third-party monitoring agency appointed by the Department in Kashmir. The agency shall check the quality of works executed by the agencies, quality of materials used for construction and quality of machinery installed in each scheme. The TPIAs role shall be that of an assistant to the Employer's Representative for the purpose of monitoring and evaluation of the performance of the Contract during the Contract Period
- Inspection and Testing Before Dispatch:** Before dispatch from the source of site of the OEM, the electro-mechanical equipment shall be inspected by a third-party inspection agency i.e. M/S CEIL/Rites etc. New Delhi. The charges for the inspection shall be borne by the Department. However, the Firm (Bidder) shall make payment to the Inspection Agency (in case of 3rd Party Inspection) which shall subsequently be reimbursed by the Department. The successful tenderer shall intimate the Department and the Inspecting Agency/Authority in advance regarding the readiness of the equipment for dispatch and shall furnish test certificates.

It shall be responsibility of the suppliers to tie up with the third party nominated for inspection and get necessary inspection of the material done within the delivery period. Any delay on the part of the third party shall not be entertained as an excuse for timely supply of material/execution of work.

The product/ material at site shall be inspected by Assistant Executive Engineer concerned or any other official(s) of the department designated by the concerned Executive Engineer. Any modifications to the works as specified in the specifications considered to be necessary for smooth and trouble-free operation of the equipment by the Department or the third party inspection agency, the firm shall have to execute the same without any extra cost, to the best satisfaction of the department.

The firm shall as such keep the department informed about arrival of material at site. It shall be obligatory on the part of the firm to rectify the defects pointed out by the AEE, if any, and also to incorporate any modification within the scope of work which may be deemed necessary for better performance/finish and workmanship. The firm upon demand by the department or its representative shall rectify or replace defective unsuitable equipment.

The Department reserves the right to nominate its representative for inspection of the goods at the source of site of the supplier/manufacturers. As such the department at all reasonable times shall have access to the works and to the site and to all workshops and places where work is being executed and where material / manufactured articles and machinery are being obtained.

In case of Sub-Station and power/feeder lines, the firm shall have to obtain a clearance certificate from the concerned inspection Division of the Power Development Department.

The list of electromechanical equipment in which third party inspection from CEIL/RITES is to be carried on

- 1) DG Set of >40KVA capacities
- 2) Pumping Unit > 40 HP (Horizontal and Vertical)
- 3) Valves >300 mm
- 4) Pipe of all size
- 5) Iron Removal Plant

For items other than those manufacturers test certificate shall have to be provided.

At the time of installation, the firm will provide Third party inspection of machinery at source of site of respective OEM's which shall be undertaken only for equipment which are not available off the shelf. For rest of the equipment, test certificate, warranty documents along with necessary performance curve and data sheet duly

signed by the representative of the OEM/authorized dealer and countersigned by the concerned firm shall be furnished by the firm.

4. **Transit Insurance:** The electro-mechanical equipment required for water supply schemes shall be insured through a Nationalized Insurance Company up to its final destination, against all transit risks. The firm should, therefore, take appropriate insurance policy in advance for covering the transit of the goods, charges for which shall be borne by the tenderer and shall be included in his quoted rates. The department shall pay no extra charges on this account.
5. **Mode of Dispatch:** The firm/contractor shall be responsible to adhere to transportation rules and regulations and the department shall not be responsible for any accident.
6. **Performance Security:** The successful bidder on award of the contract shall furnish a performance security equivalent to 03% of the value of the contract within one week of the issuance of allotment order in the shape of CDR/FDR/Bank Guarantee, valid for a period of three months beyond the completion period of the contract:
 - a. Safeguard against material and manufacturing defects, bad workmanship, improper design etc.
 - b. Successful execution of the contract and fulfillment of the conditions of the agreement.
 - c. Satisfactory performance of equipment in terms of the agreement.
7. **Terms of Payment for Electro-Mechanical Component:**
 - a. 70% (Seventy Percent) payment shall be released on receipt of material/equipment on Pro-Rata as per the allotment order and verification by the concerned Assistant Executive Engineer, thereof.
 - b. 20% (Twenty Percent) payment shall be released after installation and testing of the equipment.
 - c. Balance 10% (Ten Percent) shall be released after successful commissioning of the system and trial run of 01 month.

However, 10% on account of DLP shall be deducted from each running bill which shall be released after completion of DLP and satisfactory performance of the equipment for the period of 12 months.
8. **Warranty:** The firm shall be bound for satisfactory performance of equipment/ works for 12 months after the successful completion of trial run of 01 Month or whichever is later. If during warranty period any malfunctioning/ defects arise, the firm /joint venture shall have to rectify the same within a period of 03 days of receipt of intimation. In case of any failure on the part of the firm/joint venture to remove the defect, the Department may get the defects removed/ repaired by any other agency and cost thereof shall be recovered from the firm / joint venture and shall be recommended for further punitive action as governed under the relevant clause of the contract including blacklisting.
9. **Trial Run:** After Completion of the work the firm will have to make a trial run of the scheme for a period of 01 Month during which the bidder will have to operate through staff provided by the department and maintain the executed work to the full satisfaction of the Department. During this period, he will provide training to the staff and will also carry out maintenance work at his cost and risk, if required.
10. **Defect Liability Period (DLP):** The defect Liability period shall be for a period of 12 Months which shall commence after the successful completion of Trial run, during the defects Liability period (DLP) as it is required for its successful running and as per Standard Engineering Practices, to the full satisfaction of the department. The bidder shall be responsible to make good & remedy at his own expense any defect in works which is noticed during the DLP. In case any defect remains unattended by the firm at the completion of DLP, the department may extend the DLP for such time as deemed fit for getting the defect rectified subject to a maximum ceiling of 6 Months.
11. **Liquidated damages (LD):** In the event of firm's/joint venture failing, declining, neglecting or delaying the supplies / works or in the event of any damage occurring or being caused by the firm/ joint venture or in the event of any default or failure by the firm in complying with any of the terms and conditions of the contract, the Department shall with or without prejudice to any other remedies available to it under any law for the time being enforce in the UT:
 - a) Terminate the contract after 15 days' notice
and/or
 - b) Recover the amount of loss caused by damage, failure or default, as may be determined by the department.

and/or

- c) Recover the extra cost, if any, involved in allotting contract to other party.
and/or

- d) Impose Liquidated damages on account of delay beyond the schedule completion period to the tune of 0.5% of the delayed portion of contract every week but not exceeding 10% value of the contract.

and/or

- e) Forfeit the performance security and blacklist the firm.

12. **Force Majeure:** Any failure or commission to carry out the provision of the contract shall not give rise to any claim by the department or bidder one against the other if such failure or commission arises from the 'ACT OF GOD' which shall include all natural calamities such as fires, floods, earthquake, hurricane, strikes, riots, embargoes or from any political or other reasons beyond the control of the parties including war, or a state of insurgency.

13. **Arbitration:** Any Dispute or difference arising between the department and bidder shall be dealt in accordance with the Arbitration and Conciliation Act 1996 and rules thereof. Any dispute arising between the firm and the department shall be settled within the jurisdiction of UT of Jammu and Kashmir.

14. **Penalty clause:** The firm shall ensure that the material/workmanship should conform to NIT specifications and relevant technical codes. In case the firm fails to supply the equipment or does not execute the work in accordance with the specifications or backs out from the contract or there is delay in completion of work beyond the stipulated time, the Department shall terminate the contract and recover the extra cost involved. In addition to this the department shall forfeit the earnest money and performance bank guarantee and may impose penalty up to 10% of the contract value at the discretion of Chief Engineer Jal Shakti (PHE) Dept Kashmir. The firm shall also be liable for all civil and criminal prosecutions under law if the specifications of the supplied equipment/ material used are found in contravention to the specification of the e-NIT.

15. **Safety of Govt. Infrastructures:** The firm should ensure the safety of the water supply lines, sewer lines, telephone cables, power cables, storm water drains etc., pipe laying alignment and, if any damage occurs during execution, it should be attended immediately at the cost of the bidder. Failing to attend immediately, the same will be got done by the Department at the risk and cost of the bidder.

16. **Firm's risk and insurance:** All risks of loss or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract are the responsibility of the firm.

17. **Subletting of Work:** The bidder shall not sublet the whole or part of the work. The bidder shall not assign the work or any part thereof or any benefit or any interest thereon or any claim arising of the contract, without prior written consent of the allotting authority.

18. **Work under Bidder's Charge:** From the commencement of the work to the completion thereof the same shall be under the bidder's charge. The bidder shall be held responsible for and make good any loss or injuries by fire or other causes / theft and shall hold the Government harmless for any claims for injuries to persons or damage to property happening from any neglect, default, want of proper care and misconduct on the part of the bidder, or any of his employees, during the execution of work. The bidder shall be responsible for the compensation if any, to labour under the existing labour laws of the country.

19. **Firm to Maintain Site Office:** The bidder shall provide and maintain, at his own cost a suitable site office at the site of Work to which the Department may send communications/ instructions.

20. **Claims to be put in writing:** The Department shall not be liable to the firm for any matter or thing arising out of or in connection with the contract or the execution, completion and maintenance of the work unless the bidder puts a claim in writing in respect thereof before getting the certificate of final completion.

21. **Setting out of works:** The bidder shall be responsible for the time and proper setting out of all the works and for the correctness of the positions, levels, dimensions and alignment of all parts of the works and for the provision of all necessary instruments, appliances, electricity and labour in connection therewith.

22. **Labour:** The bidder shall make his own arrangements for the engagement of all types of the labour, required for the execution of the job. No workman below the age of 18 years shall be employed on the works. Also, the bidder shall comply with the provisions of all labour laws and the rules framed there under.
23. **Storage at Site:** The bidder shall at his own cost make arrangements for proper storage especially towards Rain and Snow damages of the equipment/ materials at sites till its erection/completion. For the purpose the bidder shall, with the approval of Engineer in charge construct temporary storage accommodation for equipment/ material at site for which land shall be provided by the department near the site of work.
24. **Bidder Death, Becoming Insolvent Or Imprisoned:** In the event of the death or insanity or insolvency or imprisonment of the bidder or where the bidder 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.
25. **Watch and Ward of Works:** The bidder shall in connection with the work provide and maintain at his own cost all lights, guards, fencing and watch and ward, when and wherever necessary or required by the Department for the protection of the work or safety and convenience of the Public etc.
26. **Training of Departmental Staff:** The bidder shall arrange, at his own cost and risk, to depute at least one competent Technical Supervisor, to train up to 04 Departmental representatives in the operation and maintenance of the equipment at site. This training shall be for duration of at least (3) three consecutive months and shall commence from the date of successful commissioning of the equipment or as may be mutually agreed upon.

Two groups of Departmental Engineers shall also be deputed to bidders/manufacturers works for short duration to obtain training free of cost in the operation and maintenance of the equipment, if required by the department.

27. **Final Acceptance:** The equipment/work shall be accepted by the Department only after the system has been tested and has performed satisfactorily in all respects, at site, in accordance with the provisions of the contract.
28. **Drawing and Quality Assurance Plans:** The following details shall be necessarily furnished within Two (02) weeks of the date of placement of this order which shall be approved by the Department within two (02) weeks from the receipt by the consignee.

- 1) Sectional Drawing of Pumps
- 2) General Arrangement Drawings (G.A.D.) /Layout of the equipment fully dimensioned for pumps, motors, starters, shunt capacitors, panels, delivery manifold, cables etc.
- 3) Detailed circuit diagrams of LT Panels, starters, shunt capacitors etc.
- 4) Third Party Inspection Reports and OEM's test certificates to the Department for their approval.

No manufacturing activity shall be started by the firm without approval of the drawings for each ordered equipment/work by the competent authority.

Additional time consumed due to observations/summary rejection of QAP/GAD shall be considered in the delivery period of the contract and the bidder shall be wholly and solely held responsible for the delay, thus caused.

Although no make has been specified in respect of any equipment, the bidder shall furnish QAP/GAD of only those makes which are standard with proven record of satisfactory performance in this Department or any other Government Department in the UT or outside. Thus, the bidder shall have to mandatorily furnish a list of makes and technical data for the tendered equipment which the firm intends to supply, in the cover 1st of the bid so that the Department is fully satisfied about the quality of the equipment.

29. **Operation and Maintenance Manuals:** The bidder shall supply, free of cost to the Department, six complete sets of operation and maintenance manuals for the Pumping Equipment and Electrical Equipment. The delivery of these manuals shall be made by the bidder to the Engineer along with the supply of equipment. The manuals shall be appropriately bound in book form and shall contain all necessary instructions regarding operation, preventive maintenance, repairs, trouble shooting, overhauling etc.

The manuals shall also include detailed drawings of the equipment, circuit diagrams and station layout with all items properly identified. The manuals shall also include the spare parts catalogues with part numbers clearly given, which must tally with index numbers in the drawings.

30. **Cleaning Up:** On completion of the works the bidder shall clear away, load into trucks or any other transport and remove from the site all constructional plant, surplus materials, dismantled or otherwise, earth and rubbish and temporary works of every kind and leave the whole of the site and works clean and in a workmanship condition, to the satisfaction of the Department.
31. **Power and Water Supply:** The bidder/firm shall make his own arrangement, at his own cost, for all lines, individual power points, etc. to the machinery and plant required by him for the erection, testing and commissioning of the equipment ordered on him. The bidder shall pay for all electrical energy consumed by him for this purpose at the prevalent electricity tariff in J&K State. Such charges shall be paid by the bidder/firm direct to the Electricity Corporation and the bidder's final bill shall be settled only after he gets a no outstanding certificate from the Electricity Corporation.
- The Government shall not be responsible, and the bidder shall have no claim whatsoever for any interruption in power supply or voltage fluctuation or total cut off at the site. The bidder/firm must provide an alternative source of power, at his own cost, at the site for completion of the work. The bidder shall make his own arrangements for water to be used for the execution/Hydro-testing/ water tightness Test/ Curing, labour colony, Site Office etc.
32. Any incidental works required thereof for fitment of the pipes / allied equipment/works etc. shall be deemed within the scope of work.
33. The drawings for gantry and other ancillary works shall be provided to the executing agency by the I/C engineer.
34. **Agreement:** As soon as letter of award is communicated to the firm, the contract shall be complete and binding upon them, the bidder/firm shall also be required to execute an agreement with the competent authority within **seven days** from the date of issue of letter of award. Failure to execute such an agreement in time shall not however, prevent this contract from being enforced against the firm and the date of delivery of the material/completion of works shall be reckoned from the date of issue of the letter of award in favour of successful firm.
- i. All other terms and conditions as laid down in Form No. 25 of P.W.D. shall remain in force and binding on successful tenderer.
- . Any rules/terms and conditions, if not stipulated in the bidding document, shall be strictly dealt in accordance with the relevant rules/guidelines stipulated in the General Finance Rules (GFR 2017) and Manual for procurement of Works 2019 Government of India.

Consignee/Paying Authority: The consignee/paying authority in respect of electro-mechanical component and allied civil works shall be the concerned **Executive Engineer, Jal Shakti (PHE) Mechanical Division (North) Sopore.**

[Handwritten Signature]
Executive Engineer
Jal Shakti PHE Mechanical Division (North)
Sopore

Annexure "B" Schedule of cost and quantities
 to this office Allotment Order No: PHE/MDNS/DB/16/19, dated: 16/08/23

Name of work:

Providing, laying and joining by welding of 200mm ND MS Pipe from Stage 1st to PST and handling, laying and joining by welding of departmental prefabricated, Medium Class GI pipe Rising Mains from clear water sump to 03 Nos. OHTs of WSS Shri Harikaran Gund under JJM

S. No.	Particulars	Qty.	Rate (In Rs)	Amount (In Rs)
1	<p>Providing, laying, fitting, testing and commissioning of Fe-410 ND200 mm dia. 5.9 mm thick MS bevel ended / plane ended pipe manufactured as per BIS 3589 of standard length 5.5-6.09 m each in length (working pressure of 20Kgf) for rising main Stage 1st to PST of WSS Shri Harikaran Gund (Under Jal Jeevan Mission). The MS pipe shall be coated with black Bitumen including cost of loading, unloading, transportation, handling, stacking, welding, watch and ward, P/F/fabrication of allied fitting, all bends, offsets, flanges , GST etc. at site.</p> <ul style="list-style-type: none"> The job includes Earth work in excavation in trenches for foundations, drains, pipes, etc. (not exceeding 1.5 m in width), including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out excavated earth and disposal of surplus excavated earth as directed, within a lead of 50 meters, All kinds of soil. Filling available excavated earth (excluding rock) in trenches , plinth, sides of foundation etc. Layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1.5m. Same can be modified to suit local conditions. The trenches include all excavations by machine or manually. The Pipe shall conforming to IS standard. The job includes providing and fitting of M.S Flanges conforming to BIS 6392/1997 (Rating PN16). The flanges shall be joined by continuous butt welding in at least two runs on external surface of the pipes. Before welding proper V groove is to be made by grinding the edges of pipes by portable grinder in order to accommodate the welding material to make the joint strong. The welding area shell be chipped properly and the flux removed to ensure crack free/ leak proof joints under full working pressure using standard electrode of ISI maked. Rubber Insertion Gaskets (conforming to IS: 638/79) to be used between flanged joints. The job also includes Fabrication, P/F of 200mm ND MS flanged bends as per site requirement. Welding machines, cutters, grinders, generator to be arranged by the firm. Job also includes cost of flanges, gaskets, nuts and bolts, oxyacetylene gas plant, MS pipe tripods with all allied tools, skilled welder with allied labor etc, as per site requirements,. The job further includes Checking of the welded spots for leakages by hydraulic test, refilling of the excavated material, transport arranged for shifting of men and machinery as per site requirement. Cost of Painting of rising main in the premises of pumping station near site first by removal of galvanization by cupric acetate then two primary coats of red oxide fallowed by two coats enamel steel painting of with approved shade as per departmental color coding. The contractor/ firm shell be bound for a period of 01 Year from the date of commissioning of the rising main for its satisfactory performance against any leakage in the pipes due to bad workmanship. The contractor/firm shell furnish such guarantee on a non-judicial paper. If during guarantee period any defect like crack in welding or any other defect is observed, the contractor/firm shell have to set right the same within a period of three days on receipt of intimation from the department. In case of any failure on part of the contractor to set right the defect (s), the department shell get the same set right/repaired through any other agency and the cost thereof shell be recovered from the contractor/firm. The contractor shell insures all the equipment's and their staff in their own interest. The department shell have no responsibility in case of any loss, theft, damage, fire etc. or any other calamity. The contractor firm shell also arranges their own watch and ward at site of work for their own equipment and the 	1000 Meter	4500/Meter	4500000.00

- departmental equipment supplied for execution of work.
- There is no grid power supply available at site. As such the contractor firm shell have to make arrangements of electricity and for this purpose portable diesel generating set shell have to be arranged by the contractor/firm at their own cost. The department shell has no liability on this account.

2

Handling, laying, joining by welding of departmental prefabricated, medium class GI pipe Rising Mains from clear water sump to 03 Nos. OHTs of WSS Shri Harikaran Gund

A. Scope of work

Above ground on saddle blocks (wherever required)/ underground laying (Earth work in excavation in trenches for foundations, drains, pipes, etc. (not exceeding 1.5 m in width), including dressing of sides and ramming of bottoms lift up to 1.5 m, including getting out excavated earth and disposal of surplus excavated earth as directed, within a lead of 50 meters. All kinds of soil. Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. Layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1.5m) in excavated trench of departmental GI prefabricated **100mm and 125mm Diameter** medium class GI rising main. The scope of work includes loading, unloading and carriage of pipes from QC&PD store Srinagar up to site of work and lying along the alignment from Stage 1st to PST and from Clear Water Sump to **03 different OHTs** to a total length of **4120 meters**. The excavation and refilling of pit, required at spots where excavation of welding of pipes lengths on circumferential joints of the pipes, is included in the scope of work. The departmental pipes shell be joined together by welded joints and flanged joints wherever required.

B. Details of work:

Laying of departmental GI/MS prefabricated **100mm, 125mm and 200mm** Diameter medium class GI rising main each having a length approx. 6 meters stored in the premises of QC&PD store Srinagar **35 kms** away from the site of work. The job includes clearing the site of vegetation around the pipes, dragging the pipes up to the loading site, loading in to carrier carriage up to site, unloading at site. These pipes to be laid mostly underground (**Min 1.5 feet below the ground**) in excavated trenches and Above Ground over saddle blocks (where ever required) as per site requirement from Stage 1st to PST and from Clear Water Sump to **03 different OHTs** to a total length of **4120 meters**. Pipes are to be carried through head load and placed along the alignment. Excavation necessary at pipe joints shell have to be done in order to weld the lower and side portion of the pipe. The excavated material from the pipe joint pits is to be refilled / rammed after lying of pipes and spread uniformly over the excavated pits. The pipes mostly are to be joined together with welded joints and welded flanges (wherever required). All the tools, tackles and equipment's such as crane/tripod stands, lifting pulling machines, welding machines, diesel power generators etc. required for handling/laying /joining and any other activity for completion of job, shell have to be arranged by the successful tenderer/firm.

The entire job shell has to be executed using skilled labours.

C. Type of welding

The departmental pipes are to be joined by continuous butt welding in at least two runs on external surface of the pipes. Before welding proper V groove is to be made by grinding the edges of pipes by portable grinder in order to accommodate the welding material to make the joint strong. The welding area shell be chipped properly and the flux removed to ensure crack free/ leak proof joints under full working pressure. Quality product electrodes of Phillips/Oerlikon Advani/ESSAB make only shell be used for welding.

D. Offset and bends:

While laying the pipes along the fixed alignment, offset / bends required for change of alignment shell be fabricated out of the departmental pipe ferrules and no extra rate shell be allowed for the same. The entire machinery and labours required to execute the job in full shell have to be arranged by the contractor.

E. Laying and fitting of pipes

Joining by welding and laying of departmental GI/MS prefabricated 100mm, 125mm and 200mm Diameter medium class GI pipe each having a length approx. 6 meters from stage 1st to PST and from Clear Water Sump to 03 different OHTs to a total length of 4120 meters including all bends/ offsets.

Total length of GI/MS pipe = 4120 meters

F. Terms and conditions

I. Performance guarantee/warranty

The contractor/ firm shall be bound for a period of 01 Year from the date of commissioning of the rising main for its satisfactory performance against any leakage in the pipes due to bad workmanship.

The contractor/firm shall furnish such guarantee on a non-judicial paper.

If during guarantee period any defect like crack in welding or any other defect is observed, the contractor/firm shall have to set right the same within a period of three days on receipt of intimation from the department. In case of any failure on part of the contractor to set right the defect (s), the department shall get the same set right/repaired through any other agency and the cost thereof shall be recovered from the contractor/firm.

II. Watch and ward/Insurance

The contractor shall insure all the equipment's and their staff in their own interest. The department shall have no responsibility in case of any loss, theft, damage, fire etc. or any other calamity. The contractor firm shall also arranges their own watch and ward at site of work for their own equipment and the departmental equipment supplied for execution of work.

III. Arrangements of power/electricity

There is no grid power supply available at site. As such the contractor firm shall have to make arrangements of electricity and for this purpose portable diesel generating set shall have to be arranged by the contractor/firm at their own cost. The department shall has no liability on this account.

Note: The cost of Macadamize road repair (where ever required) is to be paid to the R&B department from overall DPR through civil counterpart is not in the scope, which is to be done through civil counterpart.

For 125 mm Dia GI Pipe	2400 Meters	800/ Meter	1920000.00
For 100 mm Dia GI Pipe	1000 Meters	700/ Meter	700000.00
Sluice Valve, NRV's, Dismantling Joints, Double Acting Air Release Valves,			
I Providing, fitting and testing of approved quality 200mm dia. sluice valve (01 No), along with 200mm dia. dismantling joint (01 Nos) in the MS Rising Mains at the required location as per the directions of site Engineer. The dismantling joint is to be installed with the sluice valve with the help of flanges including all welding charges, cost of nuts /bolts, rubber washer, testing of joints.	01 Job	44500/ Job	44500.00
II Providing, fitting and testing of approved quality 125mm dia. sluice valve (01 No), along with 125mm dia. dismantling joint (01 Nos) in the GI Rising Mains at the required location as per the directions of site Engineer. The dismantling joint is to be installed with the sluice valve with the help of flanges including all welding charges, cost of nuts /bolts, rubber washer, testing of joints.	01 Job	37000/ Job	37000.00
III Providing, fitting and testing of approved quality 100mm dia. sluice valve (01 No), along with 100mm dia. dismantling joint (01 Nos) in the GI Rising Mains at the required location as per the directions of site Engineer. The dismantling joint is to be installed with the sluice valve with the help of flanges including all welding charges, cost of nuts /bolts, rubber washer, testing of joints.	02 Job	35000/ Job	70000.00
IV Providing, fitting and testing of approved quality 200mm dia. NRVs (01 Nos), along with 200mm dia. dismantling joints (01 Nos) in the MS Rising Mains at the required locations as per the directions of site Engineer. The dismantling joints are to be fitted with the Non Return valves with the help of flanges including all welding charges, cost of nuts /bolts, rubber washer, testing of	02 Job	52000/ Job	104000.00

	joints.			
V	Providing, fitting and testing of approved quality 125mm dia. NRVs (01 Nos), along with 125mm dia. dismantling joints (01 Nos) in the GI Rising Mains at the required locations as per the directions of site Engineer. The dismantling joints are to be fitted with the Non Return valves with the help of flanges including all welding charges, cost of nuts /bolts, rubber washer, testing of joints.	02 Job	41500/ Job	83000.00
VI	Providing, fitting and testing of approved quality 100mm dia. NRVs (01 Nos), along with 100mm dia. dismantling joints (01 Nos) in the GI Rising Mains at the required locations as per the directions of site Engineer. The dismantling joints are to be fitted with the Non Return valves with the help of flanges including all welding charges, cost of nuts /bolts, rubber washer, testing of joints.	02 Job	39000/ Job	78000.00
VII	Providing, fitting and testing of approved quality 50mm dia. CI Double Acting Air Release Valves (01 Nos) in the GI/MS Rising Mains at the required locations as per the directions of site Engineer including all welding charges, cost of nuts /bolts, rubber washer, testing of joints.	03 Job	14500/ Job	43500.00
VIII	Providing, fitting and testing of approved quality 200mm dia. Enclosed Type Water Meter (Bulk Type) (01 Nos) in the MS Rising Mains at the required locations as per the directions of site Engineer including all welding charges, cost of nuts /bolts, rubber washer, testing of joints.	01 Job	10000/ Job	10000.00
IX	Providing, fitting and testing of approved quality 125mm dia. Enclosed Type Water Meter (Bulk Type) (01 Nos) in the GI Rising Mains at the required locations as per the directions of site Engineer including all welding charges, cost of nuts /bolts, rubber washer, testing of joints.	01 Job	8000/ Job	8000.00
X	Providing, fitting and testing of approved quality 100mm dia. Enclosed Type Water Meter (Bulk Type) (01 Nos) in the GI Rising Mains at the required locations as per the directions of site Engineer including all welding charges, cost of nuts /bolts, rubber washer, testing of joints.	01 Job	7000/ Job	7000.00
Estimated / advertised amount:				7605000.00
Percentage quoted by L1 firm				-21.06%
Total allotted amount: (Rupees Sixty Lakh Three Thousand Three Hundred and Eighty Seven Only)				6003387.00

