

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI

SPECIFICATION NO	7001
ITEM NO	
LOCATION	SP/LINE/1/8/7001
	BAY-9 NEW VPD,OIL SILO AND OIL FILTRATION UNIT

SPECIFICATION CUM COMPLIANCE OF STEAM PIPE LINE FOR 10 MTR VPD, OIL SILO AND OIL FILTRATION UNIT

NOTE :

- VENDOR must submit complete information against clause No. 8.0 (Qualifying condition). The offer meeting this clause would only be processed.
- The "offered" Column and where applicable, the "Deviations" Column of this format shall be filled in by the Vender and submitted along with the offer. Technical details also submitted with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specification / requirements shall be treated as non - compliance.
- The offer and all documents enclosed with offer should be in English language only.

SCOPE :

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF STEAM PIPE LINE FOR 10 MTR VPD, OIL SILO AND OIL FILTRATION UNIT AS PER IBR GUIDE LINE

1.0	REQUIREMENT	VENDOR TO CONFIRM /SPECIFY	OFFERED	DEVIATION
1.1	This specification governs the quality requirements of supply, installation, testing, and commissioning of 250 Mtr. 80 NB Steam Pipe line (effective length including expansion loop) and 125 Mtr. 50 NB steam condensate return line with all required accessories for steam distribution and condensate return in process plant <u>As per IBR guide line</u> (M S Pipe Column structure available with us to run the pipe line)	VENDOR TO CONFIRM		
2.0	SCOPE OF SUPPLY			
2.1	M.S.Pipe and expansion loops SCH 40, ASTM A 106 IBR for steam supply at 11.2 Kg/cm2.Total distance to be covered by system pipe line will be 250 mtrs. Expansion loop to be provided by supplier to cater expansion of steam pipe as per IBR Length - 250 meter, pipe diameter = 80 NB.	VENDOR TO CONFIRM		
2.2	M.S.Pipe with drain tap and fittings SCH 40, ASTM A 106 IBR for steam Condensate supply at 3 Kg/cm2. Length - 125 meter, pipe diameter = 50 NB.	VENDOR TO CONFIRM		
2.3	M.S. Elbow, SCH 40, ASTM A 106 IBR for steam supply (suitable for 11.2 Kg/cm2), pipe diameter 80 NB.Minimum Quantity -8 No.	VENDOR TO CONFIRM & SPECIFY THE QUANTITY		
2.4	Steam Trap to remove moisture from steam pipe line at 5 KG/cm2 to 11.0 Kg/cm2 from 80 NB steam pipe line, Trap size suitable for 80 NB Steam pipe line.Minimum Quantity -12 No.	VENDOR TO CONFIRM & SPECIFY THE QUANTITY		
2.5	Suitable steam Pressure Gauge and temperature gauge with 4 to 6" dial size. Minimum Quantity.-4 Nos. each.	VENDOR TO CONFIRM & SPECIFY THE QUANTITY		
2.6	Suitable steam isolation valve and condensate isolation valve. Minimum Quantity.-4 Nos. each.	VENDOR TO CONFIRM & SPECIFY THE QUANTITY		
2.7	M.S. Flange, Class 150 for steam supply at 11.2 Kg/cm2, flange diameter suitable for 80 NB steam pipe line and 50 NB condensate return line. Minimum Quantity.-10 Nos. each.	VENDOR TO CONFIRM & SPECIFY THE QUANTITY		
2.8	50 mm (Minimum) Thick rock wool insulation with weather proof 24 swg aluminium cladding for steam line and condensate return line as per IBR (skin temperature should not exceed +/- 5 deg Celcius from ambient temperature)	VENDER TO SPECIFY THE INSULATION THICKNESS & CONFIRM		
2.9	Proposed layout Diagram Should be as per our existing column structure available with us .(site can be visited) and meet the IBR guide line	VENDER TO CONFIRM & SUBMIT		
2.10	All the consumable like welding rod,hard ware, rubber gasket should be (as per IBR guideline) in the scope of supplier.	VENDER TO CONFIRM		
2.11	M S Pipe Column structure available with M/s BHEL to run the pipe line.	VENDER TO NOTE		
3.0	SCOPE OF WORK			
3.1	Scope of work includes all activities required for the installation of 250 Mtr. 80 NB steam pipe line, and 125 Mtr. 50 NB steam condensate line, all other accessories as per requirement. and should be as per IBR..	VENDER TO CONFIRM		
3.1	The height of steam pipe line should be as per our existing column structure. (Approx 8 Mtr)	VENDER TO CONFIRM		
3.2	Laying of steam pipe line from Bay-9 steam header to Process Plants inside and outside Bay-9 through existing structure.	VENDER TO CONFIRM		
3.3	Interconnection of steam line with Bay-9 steam header to be done with header as per IBR guide line.	VENDER TO CONFIRM		
3.4	The manpower used to carry out the erection and commissioning shall be IBR certified.	VENDER TO CONFIRM		
4.0	ERECTION & COMMISSIONING.			
4.1	Supplier to take full responsibility for carrying out the erection, commissioning & testing of steam line, and steam condensate line,connection of steam line and condensate return line with his own labour, tools and other necessary equipments required to carry out all above activities	VENDER TO CONFIRM		

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF STEAM PIPE LINE FOR 10 MTR VPD, OIL SILO AND OIL FILTRATION UNIT AS PER IBR GUIDE LINE

1.0	REQUIREMENT	VENDOR TO CONFIRM /SPECIFY	OFFERED	DEVIATION
4.2	Electric power supply, Air & water shall be provided by BHEL at only one point, to be indicated by Supplier. Other requirement like crane, Trolley welding machine will be in the scope of supplier. Price implication for each items (crane, trolley, welding M/c etc.) must be indicated separately in the price bid.	VENDER TO CONFIRM		
5.0	TESTING			
5.1	Inspection & testing of complete pipe line will be done after completion of work at BHEL Jhansi	VENDER TO CONFIRM		
6.0	GUARANTEE			
6.1	The complete line shall be guaranteed for the period of 24 months from the date of commissioning.	VENDER TO CONFIRM		
7.0	GENERAL			
7.1	Supplier can visit the site before submitting the offer	VENDER TO NOTE		
7.2	Supplier shall submit the layout drawing for approval with in 15 days after receiving the order	VENDER TO CONFIRM		
7.3	Layout drawing should be as per IBR guide line	VENDER TO CONFIRM		
7.4	NOTE : NOT WITHSTANDING ABOVE, IF ANY ADDITIONAL ITEM/ ACCESSORY/PART IS REQUIRED FOR COMPLETION OF THE STEAM PIPE LINE AS A WHOLE, THE SAME SHALL BE IN THE SCOPE OF SUPPLIER, WITHOUT ANY ADDITIONAL COST IMPLICATION.	VENDER TO CONFIRM VENDER TO CONFIRM		
7.5	All statutory requirement for the laying of new steam pipe line for process plants must be completed by vendor only.	VENDER TO CONFIRM		
8.0	QUALIFYING CONDITION			
8.1	Only those vendor, who have supplied & commissioned at least one such work (Steam pipe line) in the last five years from the date of opening of tender, P.O.Copy/commissioning report must be submitted with the offer. This is required from all vendors for qualifications of their offers.	VENDER TO SUBMIT		
8.2	Performance certificate from the customer regarding satisfactory performance of the work.	VENDER TO SUBMIT		
9.0	BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false/ incorrect, the offer shall be rejected.	VENDER TO CONFIRM		

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