



BHARAT HEAVY ELECTRICALS LIMITED

RAMACHANDRAPURAM : HYDERABAD-32

PROJECTS DEPARTMENT

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Tender Notice No.

PROJ-EC/Mech/OT-35/2014-15

Dtd.09.12.2014

Name of the work: " Mechanical works for cooling water system for New Balancing Tunnel and Piping for Turn Drive Oil Station"

Schedule-A

SL.No.	Description of work	Qty	Unit	Unit rate in Rs.	Amount in Rs.
	Scope of Work - The scope of work involves collection of materials / equipment from stores / yard, shifting, laying, erection of pipe lines, valves, flanges , elbows, Tees, reducers etc. The pipelines and pipe fittings are to be aligned and joined by arc welding / connectors/ flange joint with bolts, nuts, washers and gaskets and clamped on supports at height of +12 Mtrs. to 0 Mtrs level as per drawing / BHEL Engineer's instructions. The rates quoted includes all the above work with contractor's welding electrodes,consumables and equipments. CS & SS pipe & pipe fittings, required plates, channels, angles will be supplied by BHEL free of cost.The Contractor has to arrange own transportation for material shifting from stores to work site and required arrangements for material ahandling during work execution. All necessary safety precautions like usage of safety belts at height works, usage of relevant PPEs etc. have to be taken care off by the contractor.				
1	Installation of Motor and Pump - The pre aligned motor and pump set for cooling water are to be mounted at the foundation and fixed by means of bolts. (Total weight 441.1 kg per pump motor set)	2	No. of Pump Motor	2250.00	4500.00
2	Laying of CS pipeline and pipe fittings:				
a	CS Pipe dia. 16"	6	m	960.00	5760.00
b	CS Pipe dia. 10"	12	m	600.00	7200.00
c	CS Pipe dia. 8"	18	m	480.00	8640.00
d	CS Pipe dia. 6"	18	m	350.00	6300.00
3	Laying of SS pipeline and pipe fittings and joining by means of				
a	SS pipe dia 3/4"	24	m	45.00	1080.00
b	SS pipe dia 1/2"	18	m	30.00	540.00
4	Flange Joints : Connecting the flange joints of the pipes				
a	CS Pipe dia. 16"	6	Jts.	1575.00	9450.00
b	CS Pipe dia. 10"	4	Jts.	1100.00	4400.00
c	CS Pipe dia. 8"	25	Jts.	875.00	21875.00
d	CS Pipe dia. 6"	25	Jts.	650.00	16250.00
e	CS Pipe dia. 3"	10	Jts.	400.00	4000.00

5	Weld Joints : Butt Weld Joints in following pipes: ARC welding with contractors welding set, electrode. DP test to be done on all joints.				
a	CS Pipe dia. 16"	12	Jts.	1850.00	22200.00
b	CS Pipe dia. 10"	6	Jts.	1300.00	7800.00
c	CS Pipe dia. 8"	20	Jts.	1050.00	21000.00
d	CS Pipe dia. 6"	25	Jts.	900.00	22500.00
6	Erection of following valves				
a	Flange type Gate Valve dia. 8"	2	No.	1520.00	3040.00
b	Flange type Gate Valve dia. 6"	2	No.	1421.47	2842.94
7	Installation of gauge points				
a	Pressure Gauge points to be installed	6	No.	100.00	600.00
b	Pressure Sensor points to be installed	2	No.	100.00	200.00
c	Temperature Gauge points to be installed	2	No.	100.00	200.00
8	Fabrication : The scope includes fabrication and erection pipe racks,hanger supports,pipe supporting brackets etc. Contractor has to arrange for transport to shift the material from BHEL stores to site and has to hand over the balance material to stores. Required plates, channels, angles, valves, elbows, t joints and pipes will be supplied by BHEL free of cost.	4	Tons	6531.06	26124.24
9	Dismantling : Scope of work includes dismantling of temporary cooling water line pipes, blinding the tapping in point of the temporary pipeline and shifting of the dismantled pipeline to the location as specified by the site engineer. NOTE:contractor has to make own arrangement of transportation like lorry/mobile cranes/trailor for shifting of the materials/equipments.	20	m	400.00	8000.00
10	Painting : Supply of paints, painting materials, rust preventive red oxide, primers synthetic enamel and other related painting items and Painting of platforms, cover plates, staircase, pipes, railings/barricading and other structurals with rust preventive redoxide primer & Synthetic enamel by thoroughly cleaning all the surfaces free from scales, dirt and other foreign matter. Each coat shall be applied in an even and uniform film free from lumps, streaks, runs and uncoated spots. 1 Coat of rust preventive redoxide primer with 40 microns thick and 1 coat of synthetic enamel paint as approved by BHEL. Make: ASIAN/BRITISH/SHALIMAR.	40	Sq. m	53.78	2151.20
TOTAL					206,653.38

(Rupees Two Lakhs Six Thousand Six Hundred Fifty Three And Thirtyeight Paisa Only)

Note:

1. All rates are inclusive of VAT
2. Service Tax is extra and will be released on submission of valid documents.
3. The manpower should be at the discretion of the site engineer.

- 4.The quantities indicated are tentative and may increase or decrease. Any other works not mentioned but required for completion of the project are to be carried out by the contractor.
- 5.Any other works not mentioned but required for completion of the project are to be carried out by the contractor with mutually agreed rates and vetted by finance
- 6.The contractor should follow all the statutory requirements, Environmental Management System (EMS), Occupation Health and Safety Management System (OHSAS) while executing the work.
- 7.All the unused/excess materials issued by BHEL shall be returned to the store / or as directed by the site engineer after use.
- 8.Contractor has to ensure neatness of the site by removing unwanted materials/scrap materials.
- 9.Safety : Contractor has to ensure usage of safety shoes, safety helmets, safety belts, safety net & anchoring rope, hand gloves etc. during erection and commissioning for all his personnel.
- 10.Penalty: 0.50 % of the gross value of work will be levied for every week's or part thereof delay by the agency subject to a maximum of 10 % gross value of the work executed after the schedule period of completion.
- 11.Payment Terms: Payment will be based on work % completion/milestone basis.
- 12.The agencies are advised to visit the site to understand the nature of work/quantum of work in its true perspective to avoid any complications.
- Note: The bidders are required to quote the tender value on percentage(%) basis at excess or less or on par with estimate value in figures and words.

	In Figures	In words
Excess		
Less		
On par with Estimate		