

TENDER DOCUMENT

TENDER SPECN No : BAP : ERN : OPAL : RWTP : MECH :C :241 DT 27.02.2014

NAME OF WORK :

ERECTION AND COMMISSIONING WORKS (MECHANICAL) OF RAW WATER TREATMENT PLANT (RWTP), INVOLVING HANDLING MATERIALS AT SITE STORES / STORAGE YARD, TRANSPORTATION TO SITE OF WORK, ERECTION ,TESTING AND COMMISSIONING OF MECHANICAL COMPONENTS OF RWTP AT OPAL , DAHEJ , BHARUCH, USING CONTRACTOR'S OWN TOOLS AND PLANTS, CRANES , CONSUMABLES, MANPOWER ETC

PART - II (PRICE BID)



ERECTION SERVICES DEPARTMENT

BHARAT HEAVY ELECTRICAL LTD
BOILER AUXILIARIES PLANT
RANIPET - 632 406

SCHEDULE OF RATES & QUANTITIES

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INSTRUCTIONS TO BIDDERS

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| 1. ALL THE ITEMS OF WORK INDICATED BELOW SHALL BE CARRIED OUT USING CONTRACTOR'S OWN TOOLS AND PLANTS, CRANES , TRAILORS, MACHINARIES, MAN POWER AND CONSUMABLES. |
| 2. THE ITEM OF WORKS INDICATED SHALL INCLUDE WORK INCLUDES HANDLING OF STRUCTURALS / COMPONENTS AT SITE STORES / STORAGE YARDS, TRANSPORTATION TO SITE OF ERECTION, HANDLING AT SITE OF ERECTION, ASSEMBLY, ERECTION, ALIGNING, WELDING, TESTING, ASSISTANCE IN COMMISSIONING ETC. |
| 3. THE DISTANCE OF BHEL / CUSTOMER STORES / STORAGE YARD WITHIN THE PLANT TO SITE OF ERECTION IS IN A RADIUS OF ABOUT 2.0 KM. ALL THE ABOVE RWTP MATERIALS & COMPONENTS WILL BE SUPPLIED BY BHEL ON FREE ISSUE BASIS. |
| 4. BHEL WILL NOT PROVIDE POWER AND WATER . THE BIDDER SHALL ARRANGE AT THEIR OWN COST DIESEL GENERATOR SET OF SUITABLE CAPACITY FOR POWER REQUIREMENTS. |
| 5. CRANES OF REQUIRED CAPACITY AND QUANTITY FOR COMPLETION OF THE ERECTION OF RWTP, WITHIN THE STIPULATED PERIOD, SHALL BE IN THE BIDDERS SCOPE. |
| 6. BIDDERS TO TO NOTE THAT EVALUATION OF BIDS WILL BE DONE ON THE TOTAL AMOUNT QUOTED ONLY. |
| 7. THE QUANTITIES INDICATED ARE ONLY APPROXIMATE AND ARE LIKELY TO VARY TO THE EXTENT OF +15% OR -15%.. |
| 8. FOR DETAILS OF SCOPE OF WORK REFER THE TENDER SPECIFICATION. |
| 9. A COPY OF UNPRICED PRICE-BID SHALL BE SUBMITTED ALONG WITH THE PART-I (TECHNICAL BID) WITHOUT INDICATING ANY RATE OR AMOUNT. "QUOTED" / "NOT QUOTED" SHALL BE ENTERED IN THE UNPRICED PRICE BID. ONLY THE APPLICABLE SERVICE TAX SHALL BE INDICATED. |

SIGNATURE WITH SEAL OF BIDDER

SCHEDULE OF RATES & QUANTITIES

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NOTE : REFER TO TENDER SPECIFICATION FOR DETAILED SCOPE OF WORK.

BHEL WILL NOT PROVIDE POWER AND WATER . THE BIDDER SHALL ARRANGE AT THEIR OWN COST DIESEL GENERATOR SET OF SUITABLE CAPACITY FOR POWER REQUIREMENTS.

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S.No.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE / UNIT	AMOUNT
				in Rs.	in Rs.
01	Erection of Raw water feed pumps , including motor & accessories. Type of pump: Vertical centrifugal Approx. Wt. : 2.1 MT/each Approx. Size : 2200x600x800mm	12	Set		
02	Erection of uPVC / HDPE Piping system a. Chlorine dioxide solution dosing piping from ClO2 generator system upto dosing point (Pipe size DN 65) approx wt. 0.51 MT	400	metre		
03	Erection of FRP Utility water tank over a concrete / structural platform or floor with Sand bed and bitumin for Tank bottom. Approx . Capacity : 2.5 cu.m, Approx. size.: Dia 1.5 m x 1.5m height Approx. Wt. : 0.2 MT. Approx. Wt. of Sand: 0.2 to 0.5 MT	1	No.		

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S.No.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE / UNIT	AMOUNT
				in Rs.	in Rs.
04	Erection of Clarified water transfer pumps including motors & accessories. Approx. Wt. : 0.6 MT/each Approx. Size : 1900 x 600 x 800mm Approx. Capacity : 400 cu.m/hr(15mwc, 30 kw) Motor shall be in common base frame & to be erected on the concrete platform.	2	Set		
05	Erection of Material Handling Arrangement , including fixing of mono rail to the roof beams. Electrical operated Hoist with monorail in UF shed of approx. 1 MT capacity Approx. wt. : 0.75 MT	1	Set		
06	Erection of MS fabricated Supports , platforms & pipe rack for UF system (Pre-fabricated) Supports shall be for all headers for raw water, permeate water, reject, air line etc. in UF system, including instrument air line.	10	MT		
07	Erection of MS fabricated Supports , Platforms & pipe rack for external pipe supports (pre-fabricated) Supports shall be for all Headers / pipes, GI piping of instrumentation airline etc.	20	MT		
08	Fabrication and Erection of MS Supports, Platforms & pipe rack for external pipe supports (site -fabricated) Supports for all Headers/pipes, GI piping of instrumentation airline etc.	15	MT		

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S.No.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE / UNIT in Rs.	AMOUNT in Rs.
09	Erection of Instrument air piping Approx. wt. : 1.5 MT Approx. size : 2" inch carbon steel or G.I	50	metre		
10	Erection of Utility piping Approx. wt. : 0.5 MT Approx. size: 2" to 4 " PVC (drop from 4" Header)	100	metre		
11	PAINTING : Supply & Application of finish paint for the equipment as per painting specification.	150	SQM		
12	PAINTING : Supply & Application of finish paint over steel structures, hand rails, supports, stair case, platforms etc. as per painting specification.	250	SQM		
13	SUPPLY OF FOLLOWING MANPOWER for assistance during Start-up, Acceptance test and reliability test for 10 days (Two shifts)				
a	Fitter / electrician / welder (3 x 2 x 10)	60	MAN DAYS		
b	Helper / unskilled worker (4 x 2 x 10)	80	MAN DAYS		
c	Operator (Diploma holder) / Lab assistant (BSC chemical) / Electrical Engineer / Mech.Engineer (4 x 2 x 10)	80	MAN DAYS		

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S.No.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE / UNIT	AMOUNT
				in Rs.	in Rs.
14	SUPPLY OF FOLLOWING MANPOWER for assistance during Performance guarantee test etc. for 6 days (3 shifts)				
a	Fitter / electrician / instrument technician (3 x 3 x 6)	54	MAN DAYS		
b	Operator (Diploma holder) / Lab assistant (BSC chemical) (2 x 3 x 6)	36	MAN DAYS		
15	SUPPLY OF FOLLOWING MANPOWER for assistance during Trial operation for one month				
a	Operator (Diploma holder) / Lab assistant (BSC chemical) (2 x 3 x 30)	180	MAN DAYS		
b	Helper for handling of chemicals during trial operation of plant.	30	MAN DAYS		
16	SUPPLY OF FOLLOWING MANPOWER for assistance during O & M period				
a	Process Engineer (Graduate) for guiding the day to day operation of the plant.	6	MAN MONTH		
	T O T A L				
	SERVICE TAX - APPLICABLE		RATE _____%		
	TOTAL AMOUNT INCLUDING SERVICE TAX				

TOTAL AMOUNT IN WORDS :

SIGNATURE OF BIDDER WITH SEAL