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TENDER
(BHEL NIT 16173)

CIVIL TENDER SCHEDULE NO: 08/13-14

FOR

“Modification in existing sewage disposal system as per the Pollution Control Board recommendation with a Sewage Treatment Plant of 100 KL PD Capacity including its Design, Supply, Construction, Erection and Commissioning for BHEL IVP at Goindwal Sahib , Punjab.”

PART2-PRICE BID
Volume III



BHARAT HEAVY ELECTRICALS LIMITED
(A Govt. Of India Undertaking)
INDUSTRIAL VALVES PLANT,
433, INDUSTRIAL COMPLEX
GOINDWAL SAHIB,
DISTT. TARN –TARAN,
PUNJAB , PIN-143422

CONTRACTOR

ACCEPTING OFFICER (BHEL)



ISO9001,ISO14001
OHSAS18001certified

BHARAT HEAVY ELECTRICALS LIMITED
(A Govt. Of India Undertaking)

INDUSTRIAL VALVES PLANT

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IMPORTANT NOTE

PURCHASER OF THIS TENDER DOCUMENT IS ADVISED TO CHECK AND ENSURE COMPLETION OF ALL PAGES OF TENDER DOCUMENT AND REPORT ANY DISCREPANCY TIMELY FOR CORRECTIVE ACTION, IF ANY, TO THE ISSUING AUTHORITY BEFORE THE BIDS ARE SUBMITTED. ORIGINAL COPY OF TENDER DOCUMENT COMPLETE IN ALL RESPECTS MUST BE SUBMITTED BACK AS PART OF THE BID WITHOUT WHICH THE SAME IS LIABLE TO BE REJECTED BY BHEL.

THIS TENDER SPECIFICATION ISSUED TO:

M/S-----

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**CIVIL
TENDER
SCHEDULE
No.
8/13-14**

NOTICE INVITING TENDER

{Volume III or Part 2 Price Bid}

Bharat Heavy Electricals Limited
Industrial Valves Plant
Goindwal, Punjab



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SCHEDULE 'A'
BILL OF QUANTITIES CUM PRICE SCHEDULE

TABLE 1

S/N	DESCRIPTION OF WORK	UNIT	QUAN TITY	RATE (RS.) In fig and words both	AMOUNT (RS.)
1	Design, supply, construction, erection and commissioning (DSCEC) of Sewage Treatment Plant of (100 Kilo litre per day) capacity including evolving structural design and drawing vetted by third party and approved by BHEL before starting the work. The quoted rate shall include design, drawing, construction , supply, erection ,commissioning of STP including all civil, mechanical units , electrical units , all materials that go in to the work, conveyance of material, loading unloading & all other incidental charges etc complete all as described in conditions of contract				
1.1	Providing and constructing of All Civil units of adequate capacity as per Design viz tanks ,Pumping stations, Chambers, beds for Physical, chemical, biological , primary, secondary and tertiary treatment etc of raw sewage and Sludge	Lum Sum	As per Design		
1.2	Providing and constructing of All civil foundations of adequate capacity as per design for Tanks, mechanical and electrical equipment's ,control panels , pumping stations ,Platforms etc including piping's and trenches within battery limit in all respect	Lum Sum	As per Design		
1.3	Providing and constructing of All safety provisions for tanks, reactors viz ladders, Inserts railings attached /suspended roof , removable manholes for maintenance purposes	Lum Sum	As per Design		

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1.4	Providing and constructing of Treated water storage tanks to provide total capacity of 25000 Ltrs as per technical specifications and design	Lum Sum	As per Design		
1.5	Design and Supply of All mechanical units of Sewage treatment plant including sewage transfer pumps for raw sewage into STP and other units viz Bio Accelerators, Blowers, Diffusers, Bioreactors, Media, Tube settlers, Filters, Dozer, or any other for providing Physical, chemical, biological , primary, secondary and tertiary treatment etc of raw sewage and Sludge complete in all respect as per design of adequate capacity	1 Job	As per Design		
1.6	Design and Supply of All electrical units , Instruments, gauges, meters and electronic units of Sewage Treatment plant including All cablings, control panels as per design	1 Job	As per Design		
1.7	Erection , Commissioning ,Testing & Trial run of all civil, mechanical and electrical units of Sewage treatment plant for a periods of one month including conducting continuous performance test for a duration of 48 hours of the system including cost of all consumables as per scope of work defined in Technical conditions of contract	1 Job	1		
2	Providing and Laying non-pressure NP2 class (light duty) R.C.C. pipes of Dia 450 mm with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc after excavating the trenches and refilling the same with excavated earth and compacting the same complete from existing Last man holes (T1) to Sewage pumping Stations as per direction of engineer in charge:	Meter	10		

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3	Making connection of Drain or sewer line with existing Last manhole (T1) including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete for dia of pipe 450 mm	1 Job	1		
4	Providing and fixing (CPVC) pipes/HDPE Pipes, of dia 50 mm or more, having thermal stability for hot & cold Sewage water supply including all fittings from Sewage pumping stations to first tank of STP This includes jointing of pipes & fittings with one step solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. :External work including all earthworks	Meter	10		
A.1	TOTAL AMOUNT Rs. (in figures)				
A.2	TOTAL AMOUNT Rs. (in words)				
B.1	SERVICE TAX Rs.				
C.1	TOTAL AMOUNT INCLUDING SERVICE TAX (A.2+B.1) Rs. (in figures)				
C.2	TOTAL AMOUNT INCLUDING SERVICE TAX (A.2+B.1) Rs. (in Words)				

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SCHEDULE 'B'

THE FOLLOWING MATERIALS WILL BE ISSUED FREE OF COST TO CONTRACTOR
FOR EXECUTION OF WORK AT BHEL STORE

SL.NO.	DESCRIPTION	PLACE OF ISSUE
1	NIL	
1	It will be the responsibility of the Contractor to submit his demands for the above stores in writing at least seven days in advance of the actual requirement.	
2	Issue of Stores is subject of the availability at the place of issue cited above, items of stores to be issued by BHEL which are not available at the time of indenting by the contractor may be supplied by BHEL after necessary procurement. The contractor shall not be entitled to any claim of compensation for delay in the supply of stores by BHEL under any circumstances.	
3	The materials will be issued only during the working hours of the BHEL Store Department (9.00 a.m. to 5:30 p.m.). Contractor shall have to transport them as soon as they are issued to him to the site of work at his own cost.	
4	The steel materials if issued will be in random lengths and sizes as stocked by the BHEL and the cost of all cutting, conversion, substitution and fabrication as well as wastage shall have to be borne by the Contractor.	
5	The contractor shall from time to time render proper account of all materials issued to him by BHEL. If he fails to do so, no further issue of materials will be made to him and he will be held responsible for any delay in the execution of the work which may occur on this account.	
6	All surplus materials in good condition which are not returned to the BHEL Stores as also quantities of materials consumed in excess of the max. Permissible limit as fixed by BHEL shall be charged for at punitive rates.	
7	The decision of the Engineer / Dy. General Manager / Manage as to the extent to which materials have been rendered surplus or consumed in excess of the actual requirements shall be final and conclusive and binding on the contractor.	

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SCHEDULE 'C'**ISSUE OF TOOLS AND PLANTS TO BE ISSUED BY BHEL TO
CONTRACTOR FOR EXECUTION OF CONTRACT WORK**

Sl.No.	Qty.	Particulars	Details of BHEL Crew Supplied	Hire Charges Per unit Per Day	Place of Issue	Remarks
.....NIL.....						

a. Machineries shall not be operated over time without the written permission of the Sr. Engineer / Dy. Manager / Manager.

b. All Coolies, Watermen etc., required in addition to BHEL crew mentioned in column 4 above shall be arranged by the architect / consultant at his own expense.

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SCHEDULE 'D'

NOTE: Following Drawings shall be issued by BHEL to Contractor during the execution of work and good for constructions.

SL.No.	DESCRIPTION
1	SITE LAYOUT

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SCHEDULE 'E'

LEAD STATEMENT

-----NA-----

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