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## TENDER

NIT 16210

CIVIL TENDER SCHEDULE NO: 11/13-14

FOR

“Up gradation and Modification in Storm water and Sewage Drainage system  
inside Factory of BHEL 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**

Plot No. 433, INDUSTRIALCOMPLEX,  
GOINDWAL SAHIB, Distt. TARN-TARAN,  
PUNJAB- PIN-143422; (INDIA)  
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**CIVIL TENDER SCHEDULE NO: 11/13-14**

**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.  
11/13-14**

# **NOTICE INVITING TENDER**

{Volume 2 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**

I. No.	Description of Item	Quantity	Rate* (Rs)	Unit	Amount (Rs)	DSR-13 Code
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					
a)	All kinds of soil	233.00	148.25	CUM	34,542.25	2.8.1
2	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.					
a)	All kinds of soil	39.00	190.00	CUM	7,410.00	2.26.1
3	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated soil, and then returning the soil as required, inlayers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :					
3.1	In All kinds of soil for RCC pipes of diameter size ranging from 80 mm to 300 mm					
a)	up to depth 1.5 m	680.00	192.75	RM	1,31,070.00	2.10.1.2

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b)	depth exceeding 1.5 m but not exceeding 3.0 m	120.00	260.21	RM	31,225.50	2.11
3.2	In All kinds of soil for RCC pipes of diameter size ranging Exceeding 300 mm but not exceeding 600 mm					
c)	up to depth 1.5 m	40.00	300.90	RM	12,036.00	2.10.1.3
d)	depth exceeding 1.5 m but not exceeding 3.0 m	30.00	406.22	RM	12,186.45	2.11
4	Providing non-pressure NP2 class (light duty) R.C.C. pipes with collars as per IS specifications:					
4.1	250 mm dia. R.C.C. pipe	750.00	331.03	RM	2,48,272.50	19.6.3
4.2	300 mm dia. R.C.C. pipe	50.00	374.00	RM	18,700.00	19.6.4
4.3	450 mm dia R.C.C. pipe	30.00	511.06	RM	15,331.80	19.6.5
4.4	600 mm dia. R.C.C. pipe	15.00	1133.62	RM	17,004.30	19.6.7
5	Laying non-pressure NP2 class (light duty) R.C.C. pipes 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. complete. Rate shall be excluding cost of free issue material but including carriage of material from BHEL store at site of work:					
5.1	250 mm dia. R.C.C. pipe	750.00	118.48	RM	88,860.00	19.6.3
5.2	300 mm dia. R.C.C. pipe	50.00	112.51	RM	5,625.50	19.6.4
5.3	450 mm dia R.C.C. pipe	30.00	160.76	RM	4,822.80	19.6.5
5.4	600 mm dia. R.C.C. pipe	15.00	202.28	RM	3,034.20	19.6.7
6	Providing non-pressure NP3 class (Medium Duty) R.C.C. pipes 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. complete :					
6.1	450 mm dia R.C.C. pipe	10.00	1737.60	RM	17,376.00	19.35.1
6.2	600 mm dia. R.C.C. pipe	15.00	2317.19	RM	34,757.85	19.35.2

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7	Laying non-pressure NP3 class (Medium Duty) R.C.C. pipes 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. complete : Rate shall be excluding cost of free issue material but including carriage of material from BHEL store at site of work:					
7.1	450 mm dia R.C.C. pipe	10.00	158.98	RM	1,589.80	19.35.1
7.2	600 mm dia. R.C.C. pipe	15.00	161.56	RM	2,423.40	19.35.2
8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : Rate shall be excluding cost of free issue material but including carriage of material from BHEL store at site of work:					
a)	1:4:8 (1 Cement: 4 coarse sand: 8 graded stone aggregate 40 mm nominal size).	32.00	1185.10	Cum	37,923.20	4.1.8
9	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : Providing and fixing tie bolt, spring coil and plastic cone in wall shuttering complete as per the direction of Engineer-in-charge Rate shall be excluding cost of free issue material but including carriage of material from BHEL store at site of work:					
a)	1:1:2 (1 cement : 1.0 coarse sand : 2 graded stone aggregate 20 mm nominal size)	20.00	1452.04	Cum	29,040.80	5.1.1

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10	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Rate shall be excluding cost of free issue material but including carriage of material from BHEL store at site of work:					
a)	Cement mortar 1:4 (1 cement : 4 coarse sand)	113.00	1167.54	Cum	1,31,932.02	6.1.1
11	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. Rate shall be excluding cost of free issue material but including carriage of material from BHEL store at site of work:					
a)	12 mm cement plaster	424.00	123.68	Sqm	52,440.32	13.7.1
12	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level. Rate shall be excluding cost of free issue material but including carriage of material from BHEL store at site of work:					
a)	Steel Reinforcement bars: HYSD/CTD/TMT	1923.00	9.17	Kg	17,633.91	5.22.3

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13	Making connection of drain or sewer line with existing manhole 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 : Rate shall be excluding cost of free issue material but including carriage of material from BHEL store at site of work:					
a)	For pipes 100 to 250 mm diameter	17.00	273.98	Each	4,657.66	19.21.1
b)	For pipes 350 to 450 mm diameter	18.00	417.10	Each	7,507.80	19.21.3
14	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	100.00	101.50	CUM	10,150.00	2.25
15	Disposal of Surplus excavated soil by mechanical means including loading and unloading within 1 Km of site and as directed by Engineer in charge	172.00	101.27	CUM	17,418.44	1.1.2
<b>A</b>	<b>TOTAL VALUE OF WORKS:</b>				<b>9,94,972.00</b>	<b>Rs.</b>

**\*IMPORTANT NOTES:**

- RATES STIPULATED ABOVE IN TABLE 1 ARE BASED OVER CPWD DSR 2013 FOR SCHEDULED ITEMS AND EXCLUDES COST OF FREE ISSUE MATERIAL AS ENUMERATED IN SCHEDULE 'B' OF PRICE BID WHICH SHALL BE ISSUED BY BHEL TO THE CONTRACTOR FREE OF COST AT BHEL STORES.
- SERVICE TAX AS APPLICABLE SHALL BE EXTRA TO THE RATES QUOTED ABOVE \_
- FOR THE INCLUSIONS AND EXCLUSIONS IN THE RATES TO BE QUOTED BY

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**BIDDERS IN TABLE 1 ABOVE , REFERENCE OF RELEVANT CLAUSES OF SPECIAL CONDITIONS OF CONTRACT, GENERAL CONDITIONS OF CONTRACT, TECHNICAL CONDITIONS OF CONTRACT AND INSTRUCTIONS TO THE TENDERERS AND NIT COVER LETTERS AS DESCRIBED IN PART1 OF TENDER DOCUMENT SHALL BE TAKEN.**

- **ESTIMATED COST OF FREE ISSUE MATERIAL IS Rs. 6,55,104/-**

<b><u>BIDDERS OFFER</u></b>			
<b><u>A</u></b>	<b>BASIC RATES OVER STIPULATED RATES/BELOW/ABOVE/AT PAR (QUOTE IN ANY ONE OF (1) ,(2) ,(3) ONLY)</b>	<b>BASIC AMOUNT (Rs.) IN FIGURE</b>	<b>BASIC AMOUNT (Rs.) IN WORDS</b>
<b>(1)</b>	.....% BELOW OVER RATES AS STIPULATED ABOVE IN TABLE 1 FOR ALL ITEMS OF WORK	TOTAL AMOUNT (Rs.) IN FIGURES  .....	TOTAL AMOUNT (Rs.) IN WORDS  .....
<b>(OR)</b>			
<b>(2)</b>	.....% ABOVE OVER RATES AS STIPULATED ABOVE IN TABLE 1 FOR ALL ITEMS OF WORK	TOTAL AMOUNT (Rs.) IN FIGURES  .....	TOTAL AMOUNT (Rs.) IN WORDS  .....
<b>(OR)</b>			
<b>(3)</b>	.....AT PAR OVER RATES AS STIPULATED ABOVE IN TABLE 1 FOR ALL ITEMS OF WORK	TOTAL AMOUNT (Rs.) IN FIGURES  .....	TOTAL AMOUNT (Rs.) IN WORDS  .....

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<b>(B)</b>	<b>ADD SERVICE TAX INCLUDING CESS COMPLETE AT THE RATE OF</b>  .....% OF.....	<b>TOTAL SERVICE TAX AMOUNT (Rs.) IN FIGURES</b>  .....	<b>TOTAL SERVICE TAX AMOUNT (Rs.) IN WORDS</b>  .....
<b>(C)</b>	<b>GROSS AMOUNT QUOTED INCLUDING SERVICE TAX (Rs.) ( Sum of A &amp; B)</b>	<b>IN FIGURES</b>  .....	<b>IN WORDS</b>  .....

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## **SCHEDULE 'B'**

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

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SL.NO.	DESCRIPTION	PLACE OF ISSUE
1	GREY CEMENT	BHEL STORE
2	SAND, STONE AGGREGATES, BRICKS	BHEL STORE
3	REINFORCEMENT STEEL	BHEL STORE

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- 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**


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

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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.**

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.....NIL.....

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**SCHEDULE 'E'**

**LEAD STATEMENT**

-----NA-----

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