

TENDER

TENDER NOTIFICATION NO. - FCX/22231001

FOR

**Name of Work: Civil work for cable bridge and trench
inside BHEL Bhopal factory area for 5 MW solar plant.**

PRICE BID



FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)

BHOPAL – 462 022 (M.P)

PREAMBLE OF PRICE BID

1.0 This Price Bid consists of Three Schedule:

1.1 Schedule A

Schedule A consists of **Two** Annexure:

The evaluation currency for this tender shall be INR. Total price of the package combining **Annexure I & Annexure II** to be quoted by the bidders which shall form the basis for comparison for deciding lowest bid. For further processing and award, total quoted amount by the L1 (lowest) bidder for the package shall be used for deriving individual item rate by BHEL based on % (percentage) weightage specified at Annexure I & Annexure II of Price Schedule.

1.2 Schedule B

It consists of details of free issue materials by BHEL.

1.3 Schedule C

It consists of details of tools & tackles provided by BHEL either on higher basis or on free of cost basis which are mentioned in price bid.

2.0 The work to be carried out under the contract shall, except as otherwise provided in tender conditions, include all labour, materials, tools, plant, equipment, and transport which may be required in preparation of and for full & entire execution and completion of the Works. The descriptions given in the Schedule of Quantities shall, unless otherwise stated, be held to include waste on materials, carriage and cartage, carrying in return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion as aforesaid in accordance with good practice and recognized principles as laid down in Technical Specification & elsewhere in Tender Specification.

3.0 The price bid should not contain any condition. Conditional price Bids shall be summarily rejected.

4.0 The bidder should not leave any column blank in Price Schedules.

5.0 Price Quoted shall include all taxes, & duties except **GST**.

6.0 Unless otherwise specified in the items involving cement, reinforcement steel or structural steel, these items shall be issued free of cost by BHEL.

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**Price Schedule**

Name of Work: Civil work for cable bridge and trench inside BHEL Bhopal factory area for 5 MW solar plant.

SUMMARY

	Details ANNEXURE	Total Amount (Rs.)
	Total price of the package combining of Annexure-I & Annexure-II.	

Amount in words: Rs.

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NOTE:

- 1** The evaluation currency for this tender shall be INR. Total price of the package combining of **Annexure-I & Annexure-II** to be quoted by the bidders which shall form the basis of comparison for deciding lowest bid.
For further processing & award total quoted Amount for the package by the L1 (lowest) bidder shall be used for deriving Individual item rate by BHEL based on % (percentage) weightage specified at **Annexure-I & Annexure-II** of Price Schedule.
- 2** In case of “discrepancy in words and figures”, the same shall be adjusted in accordance with following rule:
 - (a)** If, in the price structure quoted for the required goods/ services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
 - (b)** If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.
 - (c)** If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.
 - (d)** If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**Price Schedule : Anneuxre - I**

Name of Work: Civil work for cable bridge and trench inside BHEL Bhopal factory area for 5 MW solar plant.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1		Carriage of material up to 1 km lead by Mechanical transport including, loading, unloading & stacking - 1 Km lead			
	1.1.1	a) Lime,Moorum, building rubbish	1.00	cum	0.0015
	1.1.2	b) Earth	1187.00	cum	2.2225
	1.1.11	d) Steel	1.00	Tonne	0.0013
2		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m; disposed earth to be levelled and neatly dressed.			
	2.6.1	All kinds of soil.	2222.00	cum	6.5008
3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations, etc. in layers not exceeding 20 cm in depth : consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5m	504.00	cum	0.9553
4	**	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: (excluding cost of cement which shall be supplied free of cost by BHEL)			
	4.1.8	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	55.00	cum	3.1458
5	**	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. (excluding cost of cement which shall be supplied free of cost by BHEL)			
	5.1.3	1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	307.00	cum	19.2083
6		Centering and shuttering including strutting, propping, etc. and removal of form for:			
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	1145.00	sqm	4.0271
	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	800.00	sqm	4.9570

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
7	Ana. 5.22A.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. (excluding cost of Reinforcement bars which shall be supplied free of cost by BHEL).			
		Thermo-Mechanically Treated bars.(TMT bars)	15350.00	kg.	2.5692
8		Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in : (excluding cost of cement which shall be supplied free of cost by BHEL)			
	6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	5.00	Cum	0.3798
9	10.2	Structural steel work riveted ,bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. (Excluding cost of structural steel but including cost of steel primer) (structural steel shall be supplied free of cost by BHEL)	69423.00	kg	20.5699
10		Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. (Excluding cost of Electric resistance or induction butt welded tubes but including cost of primer) (Electric resistance or induction butt welded tubes shall be supplied free of cost by BHEL)			
	10.16.3	Electric resistance or induction butt welded tubes	40900.00	kg	24.5425
11	10.20	Providing and fixing bolts including nuts and washers complete.	2423.00	kg	4.2161

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**Price Schedule : Anneuxre - I**

Name of Work: Civil work for cable bridge and trench inside BHEL Bhopal factory area for 5 MW solar plant.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
12	**	12 mm cement plaster of mix:(excluding cost of cement which shall be supplied free of cost by BHEL)			
	13.4.2	1 : 6 (1 cement : 6 coarse sand) .	100.00	sqm	0.2244
13	**	15 mm cement plaster of mix:(excluding cost of cement which shall be supplied free of cost by BHEL)			
	13.5.2	1 : 6 (1 cement : 6 coarse sand)	100.00	sqm	0.2586
14	**	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:			
	13.61.1	Two or more coats on new work.	555.00	sqm	0.6302
15	**	Painting with aluminium paint of approved brand and manufacture to give an even shade:			
	13.63.1	Two or more coats on new work	3462.00	sqm	3.5605
16		Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.			
	15.2.2	1:4:8 or leaner mix.	10.00	cum	0.0936
17	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	10.00	cum	0.2214
18		Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :			
	15.7.4	In cement mortar.	2.00	cum	0.0256
19		Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:			
	15.17.2	Channels, angles, tees and flats	100.00	kg	0.0015

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**Price Schedule : Anneuxre - I**

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
20	15.19	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	1000.00	kg	0.0237
21		Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :			
	15.43.1	Water bound macadam road	50.00	sqm	0.0698
	15.43.2	bituminous road	50.00	sqm	0.1357
		Total Annexure -I			98.5421

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**Price Schedule : Anneuxre - II**

Name of Work: Civil work for cable bridge and trench inside BHEL Bhopal factory area for 5 MW solar plant.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1	Supplying and filling in plinth with stone dust under floors, including watering, ramming, consolidating and dressing complete.	99.00	cum	1.4580
	Total : Annexure II			1.4580
	Total : Annexure I + Annexure II			100.00

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : B

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The following material free issue from BHEL stores.

- 1 Cement
- 2 Reinforcement steel
- 3 Red Oxide primer
- 4 Structural steel
- 5 M S Bar

Price Schedule : C

Name of Work: Civil work for cable bridge and trench inside BHEL Bhopal factory area for 5 MW solar plant.

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|---|-------------------------------------|---|---|
| 1 | Hire charges. | } | (Subject to availability) |
| | i) Drill machine @ 252.00/- per day | | |
| | ii) Jack Hammer @108.00/- per day | | |
| 2 | Drill machine/jack hammer rod | | Rs. 100.00 per rod |
| 3 | Electricity charges at Rs.66.00/- | | per M.T. of fabrication of structural steel |