

TENDER

(NIT NO. TA/TCL/**01**/22-23)

FOR

**CONSTRUCTION OF BOUNDARY WALL FOR
5MWp SPV POWER PLANT IN TOWNSHIP OF
BHEL BHOPAL.**

PRICE BID

SECTION - VI



**TOWNSHIP CIVIL MAINTENANCE
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 Schedules:

1.1 Schedule A

Schedule A consists of two Annexures:

1) Annexure-I includes items based on GST Compliant DSR-2012, Rate Analysis & Budgetary offer.

Bidders are requested to quote their rate in Percentage above/below/at Par for Annexure-I.

1.2 Schedule B

Schedule B gives the details of free issue materials given by BHEL.

1.3 Schedule C

Schedule C gives the details of Tools & Tackles provided by BHEL on Chargeable Basis.

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 or reinforcement steel, these items shall be issued free of cost by BHEL.**



TOWNSHIP CIVIL MAINT. & CONST. DIVISION

SCHEDULE 'A'

Annexure: I

Name of work : Construction of Boundary wall for 5MWp SPV Power plant in Township of BHEL Bhopal.

S.No	It. Code	Description of items	Qty.	Unit	Rate	Amount
1	1.1	Carriage of materials by mechanical transport including loading, unloading and stacking. Upto 1.0 km				
(a)	1.1.1	Lime, moorum, bldg. rubbish	600.00	Cum	66.23	39,738.00
(b)	1.1.2	Earth	500.00	Cum	82.78	41,390.00
2	2.6	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 upto 50m and lift upto 1.5 m disposed earth to be levelled and neatly dressed.				
	2.6.1	All kind of soil	595.00	Cum	129.35	76,963.25
3	2.7	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 upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.				
(a)	2.7.1	Ordinary rock	260.00	Cum	197.75	51,415.00
(b)	2.7.3	Hard rock (blasting prohibited)	222.00	Cum	490.10	1,08,802.20
4	2.25	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 upto 1.5 m.	600.00	Cum	83.80	50,280.00
5	2.28	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.				
	2.28.1	All kinds of soil	70000.00	Sqm	9.35	6,54,500.00
6	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	1000.00	Sqm	4.82	4,820.00
7	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level:				
(a)	4.1.3 RA	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	20.00	Cum	2576.38	51,527.60
(b)	4.1.9 RA	1:4:8 (1 cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size)	110.00	Cum	2279.27	2,50,719.70

8	5.1	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 :				
	5.1.2 RA	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	245.00	Cum	2696.15	6,60,556.75
9	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
	5.2.2 RA	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	270.00	Cum	3337.06	9,01,006.20
10	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
(a)	5.9.1 RA	Foundations, footings, bases of columns, etc. for mass concrete	1040.00	Sqm	155.49	1,61,709.60
(b)	5.9.5 RA	Lintels, beams, plinth beams, girders, bressumers and cantilevers	1320.00	Sqm	251.23	3,31,623.60
(c)	5.9.6 RA	Columns, Pillars, Piers, Abutments, Posts and Struts	1495.00	Sqm	349.52	5,22,532.40
11	RA 5.22.6/	Steel Reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete upto/above plinth level:TMT bars (excluding cost of steel bars)	33475.00	Kg	7.40	2,47,715.00
12		Coursed rubble masonry (second sort) with hard stone in foundation & plinth with :-				
	7.7.1 RA	Cement mortar 1:6(1 cement : 6 coarse sand)	40.00	Cum	2754.46	1,10,178.40
13	10.1 (RA)	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.(excluding the cost of steel)	500.00	Kg	7.45	3,725.00
14	10.2 (RA)	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.	2530.00	Kg	58.31	1,47,524.30
15	10.2 (RA)	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 the cost of steel)	400.00	Kg	13.09	5,236.00
16	10.16	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				
	10.16.1 RA	Hot finished welded type tubes	1200.00	Kg	75.31	90,372.00

17	11.29.1 RA	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of moorum mortar including pointing with cement mortar 1:2 (1 cement : 2 stone dust) with an admixture of pigment to match the shade of stone with red sand stone (excluding the cost of red sand stone) (Co-efficient of cement to be consider as 0.01564 quintals per sqm)	3000.00	Sqm	258.67	7,76,010.00
18	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	13.61.1 RA	Two or more coats on new work	150.00	Sqm	50.19	7,528.50
19	13.4	12 mm cement plaster of mix :				
	13.4.2 RA	1:6 (1 cement: 6 coarse sand)	3000.00	Sqm	99.21	2,97,630.00
20	13.5	15 mm cement plaster on the rough side of single or half brick wall of mix				
	13.5.2 RA	1:6 (1 cement: 6 coarse sand)	3240.00	Sqm	114.32	3,70,396.80
21	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :				
	13.46.1 RA	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	6240.00	Sqm	60.04	3,74,649.60
22	15.2	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	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix	10.00	Cum	413.65	4,136.50
23	15.7	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	100.00	Cum	566.60	56,660.00
24	15.9	Demolishing stone rubble masonry 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				
	15.9.2	In cement mortar	60.00	Cum	676.05	40,563.00
25	16.6.1 RA	Hiring of Diesel road roller 8 to 10 tonne capacity (includes operating staff, supply of lubricating oil & diesel) for surface preparation & rolling of ground as per direction of the Engineer incharge.	10.00	Day	2894.86	28,948.60
26	16.6.1 RA	Spreading 6mm thick red bajari /moorum /copra /stone dust,watering & rolling complete including preparation of the surface. (Excluding the cost of bajri/moorum/ copra/stone dust) with road/hand roller.	400.00	Sqm	4.77	1,908.00
27	16.3	Supplying and stacking at site.				
	16.3.10 RA	Moorum	40.00	Cum	599.53	23,981.20

28	16.18	Fencing with angle iron post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be struted on both sides and end post one side only, provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples complete (Cost of posts, struts, and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used.				
	16.18.1 RA	With G.I. barbed wire	7200.00	Metre	6.67	48,024.00
29	16.53 RA	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	1200.00	Metre	231.49	277788.00
30	19.6	Providing and 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				
(a)	19.6.4 RA	300 mm dia. R.C.C. pipe	30.00	Metre	366.47	10,994.10
(b)	19.6.5 RA	450 mm dia. R.C.C. pipe	20.00	Metre	533.75	10,675.00
31	20.3	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :				
	20.3.1 RA	300 mm dia piles.	500.00	Metre	1846.79	9,23,395.00
		Note:- Designing of concrete mix M-25 is in the contractor's scope, which shall be got done in Govt.or Govt.approved laboratory as per the instruction of Engineer-in-charge. The laboratory charges for design mix shall be borne by the Contractor.Nothing extra shall be payable on this count to the contractor over and above his quoted rate.				

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SCHEDULE – “B”								
Name of work : Construction of Boundary wall for 5MWp SPV Power plant in Township of BHEL Bhopal.								
Issued free of cost at Gadia Store/ sub-division								
1	Cement							
2	Reinforcement							
Note: If the contractor fails to return to the department unconsumed portion of total quantities of respective free issue material after completion of work or as and when instructed by Engineer-incharge, recovery at twice the respective material cost of the item as procured/decided by BHEL shall be made from the contractor's bill(s).								
SCHEDULE – “C”								
1. Electricity charges @ Rs.66.00/- per M.T. of fabrication of structural steel.								
Signature of Contractor								