



BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM::HYDERABAD::32
FACTORY CIVIL ENGINEERING DEPARTMENT

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-29/14-15, Dt: 15.10.2014

PRICE BID

Item no.: 1

Name of work: Construction of pre caste compound wall for the 1.5MW solar power plant.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Jungle clearance: Engaging tractor with trailer with driver for material handling, conveying etc.. including hire charges of tractor with trailer, cost of labour, fuel charges, tools and tackles, safety equipments etc. all inclusive as directed by Engineer-in-charge. It is assessed that one tractor with trailer and minimum 4 unskilled services shall be engaged for 8 hours per day to carry out the above job of one operation.				
1	One tractor trailer with driver	2.00	One Oper.	1000.00	2,000.00
2	Engaging 4 Un skilled services for attending the above and other assigned jobs from time to time.	2.00	One Oper.	2034.40	4,068.80
3	Hire charges for land levelling with mechanical excavator (JCB). Rate includes all charges like fuel, hire charges, driver charges etc.; complete.	40.00	Hours	675.00	27,000.00
4	Earth work in excavation in all soils by mechanical means (Hydraulic Excavators) / manual means in foundations trenches or drains (not exceeding 1.5m in width or 10 Sq.m on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50M.	384.50	Cu.m	103.40	39757.30
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size). (Cement only will be issued on free of cost by BHEL)	29.50	Cu.M	1676.59	49,459.41

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	Precast concrete 1:2:4 for panels: Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required centering complete. Grade of concrete:1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) (Cement only will be issued on free of cost by BHEL)	152.00	Cum	3284.76	4,99,283.52
7	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level Grade of concrete:1:1½:3 (1 Cement: 1½ coarse sand: 3 graded stone aggregate 20 mm nominal size)for Encasing of pre-cast columns. (Cement only will be issued on free of cost by BHEL)	162.50	Cum	1539.10	2,50,103.75
8	Precast concrete 1:1.5:3 for columns: Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required centering complete. Grade of concrete:1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) (Cement only will be issued on free of cost by BHEL)	92.00	Cum	3176.21	2,92,211.32
9	Reinforcement for R.C.C. work including straightening , cutting , bending , placing in position and binding grills with binding wire all complete by cold twisted bars. (Reinforcement will be issued on free of cost by BHEL)	27.38	MT	9982.50	2,73,320.85
10	Fabrication and fixing inserts in concrete wall with lugs of required dia welded to the insert plates. (Structural Steel, electrodes and gas required for work will be issued on free of cost by BHEL at BHEL stores)	4.80	MT	2863.00	13,742.40

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
11	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)	800.00	RM	180.25	1,44,200.00
12	Filling with available excavated earth (excluding rock) in trenches , plinth , sides of foundations etc. in layers not exceeding 20 cm in depth , consolidation each deposited layer by ramming and watering , lead upto 50.00 m and lift upto 1.50 m.	372.00	Cu.M	45.70	17,000.40
13	White washing with lime to give an even shade - New work (Three of more coats).	4000.00	Sq.m	6.75	27000.00
14	Centering and shuttering including strutting, propping etc.; and removal of form work, walls(any thickness) including attached pilasters,butteresses ,plinth and string courses etc.;- Upto Plinth level.	18.00	Sq.M	119.25	2,146.50
15	Coursed rubble masonry in second sort with hard stone in foundation & plinth with cement mortar 1:6 (1 cement :6 coarse sand) (Cement only will be issued on free of cost by BHEL)	14.00	Cu.M	1521.00	21,294.00
16	Brick work with FPS bricks of class designation 75 in superstructure above plinth level up to ground floor in all shapes and sizes in cement mortar 1:6.(Cement only will be issued on free of cost by BHEL)	29.00	Cu.M	2104.00	61,016.00
17	Plastering in CM 1:6 , 20 mm thick to internal and external surfaces of walls including the cost of all materials , labour , curing etc., complete -Upto 10.00 M level. (Cement only will be issued on free of cost by BHEL)	250.00	Sq.m	65.80	16,450.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
18	Fabrication of structural steel work including all materials going into the process of fabrication and forming an integral part of steel work together with all shop and site rivets and electrodes for site welding as necessary and all site connections comprising sag rods, floor beams, girders, bracings, trusses and frame work for fixed false ceiling and for movable false ceiling, purlins with channel / angles, MS flat supports including all connections as per detailed drawings connected steel works etc., cleats, gusset plates, all bolts, nuts, washers, base plates, anchor bolts as per detailed drawings, cutting, welding and painting 2 coats of red-oxide primer before erection etc., complete. The rate shall include painting 2 coat of Red-oxide as per IS specifications and all charges for handling, leading and loading at the fabrication yard. The raw structural steel sections, electrodes, gasses will be issued by BHEL on FREE of cost at their stores.	2.00	MT	6847.05	13,694.10
19	Erection of Steel work out lined in item above including the charges for handling, leading and stacking at site at approved locations prior to erection including all site rivetting, bolting, jointing and site welding where ever required.	2.00	MT	2934.41	5,868.82
20	Painting at site of all structural steel work with 2 coats of aluminium paint / synthetic enamel paint of approved shade to trusses, columns, girders, bracings etc., with aluminium paint or synthetic enamel paint as required etc., complete. The required paint only will be issued free of cost by B.H.E.L at their stores.	2.00	MT	539.97	1,079.94
21	Dismantling brick masonry walls for all heights, removing and clearing the debries and carting away upto to lead of 2 KM including loading, unloading and spreading segregating useful materials as directed by Engineer-in-charge including the cost of all labour scaffolding etc., complete.	9.00	Cu.m	355.88	3,202.92
22	Dismantling steel work in built up sections in angles tees, flats and channels including all guest plates, bolts, cutting rivets, welding etc., including dismembering and stacking within 2 Km metres lead.	0.50	MT	890.11	445.06

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
23	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 - 450mm dia R.C.C pipe.	30.00	RM	499.55	14,986.50
	Total Value of work			₹	17,79,331.58
Total : ₹ Seventeen lakhs seventy nine thousand three hundred thirty one and fifty eight paise only					

Note:

1	A penalty of 0.50 % of the gross value of work will be levied for every week's or part thereof delay in execution of work by the agency, subject to a maximum penalty of 10 % of gross value of the total work executed.
2	The rates are inclusive of all taxes and duties except Service tax, which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents.

Note : The bidders are required to quote the tender value on percentage (%) basis at excess or less or on par with estimate value in figures and words.

Tender %	In figure	In words
Excess		
Less		
Estimated value		