



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-28/16-17, Dt: 03.02.2017

PRICE BID

Item no.: 1

Name of work:- Reconstruction of collapsed boundary wall between watch tower no. 3 and MIG – II exit gate (south side of Factory area) and Providing concertina coil and barbed wire fencing over wall running from vendor complex and new PE & SD building.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Part-A				
1	Dismantling Stone rubble masonry (CRS) 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.	20.00	Cu.m	751.15	15,023.00
2	Dismantling brick masonry walls for all heights, removing and clearing the debris 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.	36.00	Cu.m	631.75	22,743.00
3	Providing of coursed rubble masonry in second sort with existing available hard stone in foundation & plinth with cement mortar 1:6 (1 cement :6 coarse sand) etc. complete all as directed by Engineer-in-charge - The cement will be issued free of cost by BHEL at their Stores and the rate includes the cost of filling stone wherever required to CRS masonry work).	20.00	Cu.m	1,806.50	36,130.00
4	Coursed rubble masonry in second sort with hard stone in foundation & plinth with cement mortar 1:6 (1 cement :6 coarse sand) etc. complete all as directed by Engineer-in-charge - The cement will be issued free of cost by BHEL at BHEL Stores.	8.00	Cu.M	2,819.70	22,557.60
5	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 etc. complete all as directed by Engineer-in-charge	26.00	Cu.m	130.80	3,400.80
6	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) etc. complete all as directed by Engineer-in-charge - The cement will be issued free of cost by BHEL at BHEL stores.	4.00	Cu.m	2,606.00	10,424.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
7	Brick work with Ground moulded clay FPS brick in super structure above plinth level upto floor five level in cement mortar 1:6 (1 cement : 6 Coarse sand) etc. complete all as directed by Engineer-in-charge - The cement will be issued free of cost by BHEL at BHEL Stores.	26.00	Cu.M	3,513.00	91,338.00
8	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement, including consolidation by vibrations for all works up to plinth level with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size) etc. complete all as directed by Engineer-in-charge. The cement and steel will be issued free of cost by BHEL at BHEL stores.	14.00	Cu.M	2,772.00	38,808.00
9	Centering and shuttering including strutting, propping etc.; and removal of form work, for Foundations(Raft), footings, bases of columns, etc. for mass concrete etc. upto plinth level etc. complete all as directed by Engineer-in-charge.	157.00	Sq.m	166.90	26,203.30
10	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. - The steel will be issued free of cost by BHEL at BHEL Stores etc. complete all as directed by Engineer-in-charge.	1.10	M.T	7,369.00	8,105.90
11	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. The cement will be issued free of cost by BHEL at BHEL Stores etc. complete all as directed by Engineer-in-charge.	286.00	Sq.m	124.00	35,464.00
12	Pointing on stone work with cement mortar 1:3 (1 cement :3 fine sand) : - Raised and cut pointing etc. complete all as directed by Engineer-in-charge.	15.00	Sq.m	190.60	2,859.00
13	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 etc. complete all as directed by Engineer-in-charge.	396.00	Sq.m	4.82	1,908.72
14	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 etc. complete all as directed by Engineer-in-charge.	15.00	Cu.M	83.80	1,257.00
15	Conveyance of excavated spoil up to a lead of 2 Kms, including loading, unloading and spreading etc. complete as directed by Engineer - in- charge.	12.00	Cu.M	93.94	1,127.28

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
16a	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 BHEL stores.	1.09	MT	8,871.00	9,669.39
b	Erection of Steel work for the above item 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 etc. complete all as directed by Engineer-in-charge.	1.09	MT	3,802.00	4,144.18
17	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 BHEL stores.	1.09	MT	696.07	758.72
18	Applying exterior emulsion paint two coats over one coat of primer of given shade on old / new external plastered surfaces of walls at all heights of the building including scraping the old surfaces, cost of all labour and other incidentals. (Only exterior emulsion paint will be supplied by BHEL on free of cost and primer has to be supplied by the contractor) etc. complete all as directed by Engineer-in-charge.	300.00	Sq.M	52.50	15,750.00
19	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (Total length 90M), having 50No.s rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4M or 3.00 m apart and with 9 horizontal RBT reinforced barbed wire, stud tied with GI staples and GI clips to retain horizontal , including necessary bolts or GI barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape (RBT) / Spring Core (2.5mm thick) wire of high tensile strength of 165 Kg/Sq.mm with tape (0.52mm) and weight 43.478 gm/Metre(Cost of MS angle , CC blocks shall be paid separately).	40.00	RM	269.20	10,768.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
20	Fixing the old/ used A.C. sheets for barricading the foundation works and removing the same after the work is over for side walls in the Factory blocks and sheds and at all height including transportation of A.C. sheets and disposing off old sheets to a lead of 2 K.Ms. Etc., complete as directed. (Required consumable materials will be supplied by BHEL free of cost at BHEL stores) etc. complete all as directed by Engineer-in-charge.	40.00	sq.m	36.87	1,474.80
21	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, cutting rivets, welding etc., including dismembering and stacking within 50 metres lead etc. complete all as directed by Engineer-in-charge.	0.22	MT	1,616.80	355.70
22	Removal Existing roof/side cladding of AC Sheets roofing, louvers side cladding including loading, carting, unloading etc., with in the premises up to a lead of 2 km etc. complete all as directed by Engineer-in-charge.	39.60	Sqm	31.86	1,261.66
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 etc. complete all as directed by Engineer-in-charge.	4.00	RM	620.85	2,483.40
Part-B					
1	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre open able length (Total length 90M), having 50No.s rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4M or 3.00 m apart and with 9 horizontal RBT reinforced barbed wire, stud tied with GI staples and GI clips to retain horizontal, including necessary bolts or GI barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape (RBT) / Spring Core (2.5mm thick) wire of high tensile strength of 165 Kg/Sq.mm with tape (0.52mm) and weight 43.478 gm/Metre(Cost of MS angle, CC blocks shall be paid separately). The agency shall make his own arrangements for fixing of 'Y' shaped angles in the existing compound wall pillars by making hole with machinery.	110.00	RM	269.20	29,612.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
2a	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 BHEL stores etc. complete all as directed by Engineer-in-charge.	0.75	MT	8,871.00	6,653.25
2b	Erection of Steel work out lined in item No.2a 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 etc. complete all as directed by Engineer-in-charge.	0.75	MT	3,802.00	2,851.50
3	Painting at site of all structural steel work with 2 coats of aluminium paint / synthetic enamel paint of approved shade to flower saplings etc., with aluminium paint as required etc., complete all as directed by Engineer-in-charge. The required paint only will be issued free of cost by B.H.E.L at BHEL stores.	0.75	MT	696.07	522.05
4	Dismantling brick masonry walls for all heights, removing and clearing the debris 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 all as directed by Engineer-in-charge.	3.04	Cu.m	641.75	1,949.32
5	Brick work with Ground moulded clay FPS brick in super structure above plinth level upto floor five level in cement mortar 1:6 (1 cement : 6 Coarse sand) etc. complete all as directed by engineer-in-charge. -The cement will be issued free of cost by BHEL at BHEL Stores.	7.44	Cu.M	3547.40	26383.79
6	Plastering in CM 1:6, 20 mm thick to internal and external surfaces of walls (Existing or new surface) including the cost of all materials, labour, curing etc., complete all as directed by engineer-in-charge Upto 10.00 M level. - The cement will be issued free of cost by BHEL at BHEL Stores.	77.00	Sq.m	124.00	9548.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
7	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 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) etc. complete all as directed by Engineer-in-charge. The cement will be issued free of cost by BHEL at BHEL Stores.	1.00	Cu.m	2656.00	2656.00
8	Applying exterior emulsion paint two coats of given shade on external new plastered surfaces or on existing wall surface , flower saplings (30 No.s) including scraping the old surfaces ,cost of all labour and other incidentals etc. complete all as directed by engineer-in-charge. (Only exterior emulsion paint will be supplied by BHEL).	600.00	Sq.M	37.10	22,260.00
	Total Value of work			₹	4,66,451.34

Note:

1	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work or part there of subject to a maximum penalty of 10% of the gross value of work executed after the period of completion.
2	The rates are inclusive of all taxes and duties except Service tax, swatch bharat tax which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents.
3	The tender % age quoted by the contractor shall be inclusive of all taxes and duties other than service tax as applicable from time to time.
4	All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirement, issued by IR section of HR department BHEL.
5	The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work.
6	The maintenance period of the work is 6 months . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill.
7	The agency has to pay the minimum wages to workers with statutory payments like ESI, PF etc., is as per BHEL notification and as per NIT. For USW=₹ 500.80, SSW=₹ 553.15, SW = ₹ 604.96 + ESI + PF + PPE's and other statutory if any.
8	The agency has to bring police clearance certificate for the work force.
9	All the terms and conditions of the contract with respect to taxes & duties are subject to the new taxation laws introduced from time to time (e.g. GST). The terms and conditions will be modified in accordance with the provisions of new laws (e.g. GST).

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		