



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-14/2013-14, Dt: 27.12.2013

PRICE BID

Item no.:3

Name of work: Construction of Room for Optimizer on west side of cash office.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1	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 as directed by Engineer-in-charge.	33.00	Sq.m	43.65	1,440.45
2	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 2.00 KM lead etc. complete as directed by Engineer-in-charge.	0.80	MT	890.11	712.09
3a	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.	0.30	MT	7,563.80	2,269.14
b	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.	0.30	MT	3,241.60	972.48
c	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 over a coat of redoxide as required etc., complete. The required paint only will be issued free of cost by B.H.E.L at BHEL stores.	0.30	MT	596.50	178.95

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
4	Dismantling doors, windows and clerestory windows (Steel or wood) shutter including chowkats, architrave holdfasts etc. complete and stacking within 50 metres lead. - of area beyond 3 Sq.m	4.00	Each	75.35	301.40
5	Dismantling reinforced cement concrete / plain cement concrete and disposing of debris upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	1.50	Cu.m	582.68	874.02
6	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.	21.00	Cu.m	103.40	2,171.40
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 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size) The cement will be issued free of cost by BHEL at BHEL stores.	5.00	Cu.M	1,560.50	7,802.50
8a	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) - The cement and steel will be issued free of cost by BHEL at BHEL stores.	6.00	Cu.M	1,641.30	9,847.80
b	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 floor five level with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size). The cement and steel will be issued free of cost by BHEL at BHEL stores.	9.00	Cu.M	2,002.00	18,018.00
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. - The steel will be issued free of cost by BHEL at BHEL Stores.	1.20	M.T	4,003.00	4,803.60
10a	Centering and shuttering including strutting, propping etc.; and removal of form work, for walls (any thickness) including attached pilasters, butresses, plinth and string courses etc. upto plinth level.	32.00	Sq.M	180.40	5,772.80
b	Centering and shuttering including strutting, propping etc.; and removal of form work, for columns, beams, slab etc. above plinth level.	86.00	Sq.M	238.40	20,502.40

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
11	Plastering over roof slab in CM 1:4, 20mm thick mixed with water proofing compound, Make: "Sika" @ 3% by weight of cement as per manufacturer's specification, curing as directed. Rate quoted shall include finishing, cost of all materials and labour etc., complete. (Cement =7.69 kgs/sq.m x3% WP@ Rs 20.00 per kg = Rs 4.61) upto 10 m height . - The Cement will be issued free of cost by BHEL at BHEL stores.	35.00	Sq.m	81.30	2,845.50
12	Cement Plaster to ceiling /walls with 15mm thick cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand) - The cement will be issued free of cost by BHEL at BHEL Stores.	50.00	Sq.m	103.30	5,165.00
13	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). - The cement will be issued free of cost by BHEL at BHEL Stores.	11.00	Cu.M	2,104.00	23,144.00
14	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.	140.00	Sq.m	65.80	9,212.00
15	Applying exterior emulsion paint 2 coats over one coat of primer to external new plastered surfaces including cost of all labour and other incidentals. (only exterior paint will be issued by BHEL on free of cost).	70.00	Sq.m	20.55	1,438.50
16	Applying two coats of oil bound distemper of given shade over a coat of primer including through cleaning of the surfaces, cost of all labour and other incidentals. (Only OBD will be supplied by BHEL at BHEL stores).	120.00	Sq.m	29.00	3,480.00
17	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.	16.00	Cu.M	45.70	731.20
18	Conveyance of excavated spoil up to a lead of 2 Kms, including loading, unloading and spreading etc. complete all as directed by Engineer- in- charge.	5.00	Cu.M	56.41	282.05

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
19	Providing & Fixing of top fixed, side hung of NCL Seccolor windows & Ventilators of make shakthi/Ajantha/Finesta fabricated from Roll formed section made of pre painted steel (Base steel as per IS 513 of 0.6 mm thick, 'D' quality, galvanized as per IS 277 with zinc 150 GSM / Sq. Mtr). Section for shutter should be of 46 x 46 mm, external frame should be of 46 x 52 mm, section for glass beading should be of 18 x 25 mm & center mullion should be 46 x 70 mm. The sections to be cut to length, meter joined with corner bracket. Centre mullions are to be fixed using mullion cap. Handle made of high grade aluminium powder coated & with nylon receiver & glazed with 4 mm thick, modi float glass. Gasket made of E.P.D.M. Corner brackets made of C.R.C.A with zinc phosphating. Million caps made of glass filled nylon. The above frames should be fixed to the concrete / masonry walls by means of self expanding screws.	6.00	Sq.m	3,000.00	18,000.00
20	Supply and fixing of aluminum window grills of size 1.50 Mx1.80M approx. and 1.20 mx1.80M approx. . along with aluminium frame consisting aluminium 'F' (solid) 0.80kg/12' supply and fixing of design of 4" aperture aluminium grill to the above frame work with necessary fixtures. It includes fixing of total frame to the existing brick work, finishing etc. complete. (The material shall be aluminium alloy :6063, thick 7 mm, ultimate tensile strength more than 19 kgs/sq.mm).	6.00	Sq.m	1,540.00	9,240.00
21	Supply & fixing in position PVC Pipes of 110 mm dia of 6 Kg/Sq. cm of approved quality and conforming to IS:4985/2000 with specials, accessories and approved sealing / jointing compound on the exterior of the inserted portion and jointing to MS gutters, including cost of all materials, sealing compound, labour etc., for all heights complete.	8.00	R M	211.00	1,688.00
22	Vitrified flooring : Supply and laying of vitrified tiles of brighter shades and required design of premium quality (1st quality), in required texture and colour for floors/skirting/cladding using vitrified tiles of size 600 X 600 mm(± 5 mm), inclusive of cost of cutting , champering of tiles to required size, laid on 20mm thick or more as per site requirement to get proper slope cement mortar 1:4 (1 cement : 4 coarse sand) . The cost of the tile shall be Rs.65/- per Sft. (inclusive of all taxes and duties) and tiles of required make will be selected by department within the above specified cost. The rate quoted shall include cost of all materials, labour, colour tint material, leads and lifts etc. complete. Amount will be paid on the basis of measurement of the area of finished work only. It also includes surface preparation of floor giving necessary slopes, cleaning joints and grouting joints with pigmented additives to match shade of the tile. This includes making pockets for electrical, communication, network cables, junction boxes etc. complete in all respects. (The cement will be issued free of cost by BHEL at BHEL stores).	35.00	Sq. m.	967.00	33,845.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
23	Supply and fixing in position medium teak wood door frame along with single leaf shutters solid core non - decorative type 30 mm thick of approved quality and brand including 3 No.s MS hinges 10 cm long and 1 no. mortise lock (Godrej make), using scantling of size 100 mm X 75 mm (including with MS holdfasts of size 230 X 50 X 4 mm - 6 No.s and painting with coal tar to the faces coming in contact with masonry / concrete . including cost of all materials , labour etc. complete as directed by Engineer - in - charge.	2.52	Sq.M	3,180.00	8,013.60
24	Providing and Laying in position bitumen hot sealing compound for expansion joints etc. - using grade "A" sealing Compound.	24.00	Per CM depth per cm width per m length.	1.10	26.40
	Total			₹	1,92,778.28
	Add increase in Vat 1% over the material cost (70% of Above value)			₹	1,349.45
	Total value of work			₹	1,94,127.73
Total : ₹ One lakh ninety four thousand one hundred twenty seven and seventy three paise only					

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 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		