



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-27/14-15, Dt: 18.09.14

PRICE BID

Item no. 4

Name of work: Construction of shed at K-gate for transporters representative.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1	Dismantling reinforced cement concrete / plain cement concrete and disposing of debries upto a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	1.80	Cu.m	582.68	1048.82
2	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.	6.00	Cu.m	103.40	620.40
3	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)	6.00	Cu.M	1560.00	9,360.00
4	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). (Cement only will be issued on free of cost by BHEL)	8.00	Cu.M	1,641.30	13130.40
5	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)	21.00	Cu.M	2104.00	44184.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	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)	190.00	Sq.m	65.80	12502.00
7	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).	95.00	Sq.m	20.40	1938.00
8	Applying two or more coats of distemper with oil bound washable distemper of approved brand and manufacture to given an even shade including preparation of the surface, cost of all labour, material and other incidentals including priming coat with cement primer.	95.00	One Sq.m	34.60	3287.00
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.(Reinforcement will be issued on free of cost by BHEL)	0.64	M.T	4003.00	2561.92
10	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.	16.00	Sq.M	180.40	2886.40
11	Fixing of colour coated aluminium zinc alloy coated metallic hirib profile sheet. The sheet shall be crest fixed to roof purlins with number 12-14 x 55 mm long polymer coated galvanized hex-head self drilling screws with integral washers and EPDM seals (4 fasteners per support) for sheet etc., compete as directed by Engineer-In-Charge. Old Zinc alloy coated metallic hirib sheets shall be issued free of cost at BHEL stores.	65.00	Sq Mt	67.78	4,405.70

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
12	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.(Dismantled structures from the scrap yard can be used)	1.60	MT	6,747.58	10796.13
13	Erection of Steel work out lined in item No.6 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.	1.60	MT	2891.80	4626.88
14	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.	1.60	MT	494.50	791.20
15	Supply and fixing of sliding aluminium windows 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 120 GSM / Sq. Mtr). Section for shutter should be of min 1.5 mm thickness, external sliding frame should be not less than 38 x 20 mm, . The frame of the window will be fixed to the wall with PVC rawl plugs and screws . Handle made of high grade aluminium powder coated & with nylon receiver & glazed with 5 mm thick, Modi/Saint Gobain float glass. Glass will be cut as per size and fitted to aluminium frame with rubber gasket 5.00 mm size and taper clip will be provided for fixed portions. Sliding arrangement will be of silicone/ PVC sliders.	8.00	Sqm	3,634.47	29,075.76

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
16	Supplying and fixing aluminum door with single/double shutters made out of new anodised aluminum box section of size 44.50x 47.50x 2.00mm for verticals, top and middle rails and 101.60x44.50x2.00mm for bottom rail inclusive of supply and fixing of all aluminum fixtures and fittings such as handles , tower bolt 12mm dia 200mm long, hydraulic door closure of IS specification , 4" long(100mm) but hinges, stopper and suitable locking arrangement etc. complete . Wherever members are joined wooden runners are to be inserted in the box section for taking hinges, tower bolts, handles, hydraulic door clouser and providing necessary rubber beeding for closing of door shutters all as directed by Engineer-in - charge. The rate shall include cost of door frame using aluminium box sections of size 101.60x44.50x2.00 mm. etc. complete all as directed by Engineer in charge .	2.10	Sq.m	2629.47	5521.89
17	Providing and fixing in true horizontal level 600 mm x 600mm false ceiling system manufactured by M/s. Armstrong World Industries using DUNE SUPREME RH 99 MICROLOOK EDGE WITH SILHOUETTE GRID, using hot dipped galvanized steel section, rotary stitched main tee of size 15mm x 42 mm web height, having 0.36 mm gauge at every 600 mm centre to centre maximum and rotary stitched cross tee of size 15 mm x 42 mm, having 0.33 mm gauge at every 600 mm. c/c. and wall angle of size 19 x 19 mm., having 0.35 mm gauge fixed to the periphery of the wall. The above grid is suspended at every 600mm c/c. in both directions using 2.0 mm. thick pre-straightened GI wire, and laying Dune Supreme Microlook Edge ceiling tiles manufactured by M/s. Armstrong World Industries, of size 600mmx600mmx15mm having NRC 0.50, Light reflectance of >85% (WT), thermal conductivity k = 0.052-0.057 W/m0K, Humidity Resistance of 99% (having LIFETIME GUARANTEE against SAG), having Fire Performance CLASS O / CLASS 1 (BS 476), surface having 3 coats of white paint - crisp finely granulated with micro perforations. of the tile duly sanded and finished with a coat of protective paint over the formed grid and complete in all respects. Boards, where light fixtures to be fixed shall be handed over to Department. Make: Armstrong	50.00	Sq.m	1062.20	53110.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
18	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).	50.00	Sq.m	967.00	48350.00
19	Supplying and fixing of various sizes of MS bolts,nuts and washers confirming to IS 1367-1961 including cost of all materials, labour etc., complete (MR)	0.02	One MT	70797.90	1415.96
20	Conveyance of excavated soil up to a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer- in- charge.	6.00	Cu.M	56.41	338.46
21	fixing North Light curves in required girth with 0.5 mm color galvalume sheets upto a length of 2.5 M having curved width upto 600 mm fixing to the steel members with self drilling / self stitching, fasteners at a maximum of 500 mm c/c along the length of capping, flashing etc., complete as directed by Engineer-in-charge including the cost of galvalume sheets, labour etc., complete.	10.00	Sqm	67.78	677.80
	Total of Part-A			₹	2,50,628.72

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Part B-Electrical works				
1	Supply & Installation of ceiling fans 56" (1400mm) sweep, 220/240V, complete unit with regulator, 300mm down rod, canopy, blades etc. Make: Usha/GEC/Orient/Crompton Greaves. New deluxe with double ball bearing (white) confirming to IS: 374/79 class-I. Testing and Commissioning. The job involves with supply of concealed ceiling fan hook of 16 G sheet steel round/square as required 2 1/2" deep & 10mm dia fan hook having 1" pipe conduit entry holes on all four sides.	4.00	Set	1675.00	6,700.00
2	Supply and execute the concealed / surface PVC/MS Pipe wiring with 1.5 sq. mm 660 / 1100. V. Grad PVC insulated copper wire multi strand of make Finolex / Rediant / fincab/ Havells/ L&T. In PVC pipe of suitable dia (As per IS for wiring points) with 14 G/1.5sq.mm green colour copper wire for earth continuity. Each light / fan point should be connected to three plate ceiling rose code 30090 of Roma modular type of Anchor or North West make / connector suspended duly with conduit / PVC pipe etc. Each circuit should not have more than 7 points 700 watts.	10.00	Pts	1,162.00	11,620.00
3	Supply and laying of 2 runs of 2.5 SQ.MM. PVC insulated copper conductor FRLS cable along with 1run of 1.5Sq.mm PVC insulated copper conductor cable. Run in a 19mm dia. 1.2mm thick PVC conduit on surface of the ceiling or in wall.	200.00	R M	135.36	27,072.00
4	Supply and installation of one no 6A 5pin shuttered type sockets controlled by 1no. 6A switch with suitable size of front plate etc. (RAW POWER set) Make: Roma of Anchor	5.00	Each	864.80	4,324.00
5	---do--- for Boards consisting 25 A Switch cum sockets with 4 Sq. mm FRLS Cable for AC's, Refrigerators and Heaters etc. (Separate line to be drawn from MCB). Make: Finecab / Finolex/ROMA	15.00	Point	1012.80	15,192.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	Supply and installation of Energy efficient light fitting, T5 type 2 x 28 W industrial luminaire with 28W T5 Fluorescent lamps. This includes supply & fixing of downrods, round blocks, connecting the copper twin twisted wire from ceiling rose to fitting and other accessories. Make: Philips/Asian Electronics	4.00	Set	1519.20	6,076.80
	Total of Part-B			₹	70,984.80
	Grand Total			₹	3,21,613.52
	Add increase in Vat 1% over the material cost (70% of Above value)			₹	2,251.29
	Total Value of work			₹	3,23,864.81
Total : ₹ Three lakhs twenty three thousand eight hundred sixty four and eighty one 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		