



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-08/16-17, Dt: 22.07.2016

PRICE BID

Item no.: 4

Name of work:- Providing of parking shed at New Plate and Pipe yard – Civil & electrical works.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1	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.	12.00	Cu.m	130.80	1,569.60
2	Taking out existing CC interlocking paver blocks from footpath/central verge, including removal of rubbish etc.; disposal of unserviceable material to the dumping ground, for which payment will be made separately and stacking of serviceable material within 50 metre lead as per direction of engineer-in-charge.	143.00	Sq.M	36.35	5,198.05
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) - The cement will be issued free of cost by BHEL at BHEL stores etc. complete all as directed by engineer-in-charge.	22.00	Cu.m	2,606.00	57,332.00
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). The cement will be issued free of cost by BHEL at BHEL stores etc. complete all as directed by engineer-in-charge.	40.00	Cu.M	2,772.00	1,10,880.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
5	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.	7.00	M.T	7,369.00	51,583.00
6	Flooring in 25 mm thick using 1 cement :3parts of granite stone chips of 3 to 10 mm gauge (no sand) ellies pattern first sort including neat finishing, curing, cost of materials etc.; complete. The cement will be issued free of cost by BHEL at BHEL stores etc. complete all as directed by engineer-in-charge.	143.00	Sq.m	122.00	17,446.00
7	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.	55.00	Cu.M	93.94	5,166.70
8a	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.	4.54	MT	8,871.00	40,274.34
8b	Erection of Steel work out lined in item No.8a 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.	4.54	MT	3,802.00	17,261.08

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
9	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 BHEL at BHEL stores etc. complete all as directed by engineer-in-charge.	4.40	MT	696.07	3,062.71
10	Supply & fixing of non colour (bare) coated galvalume hirib profile sheet of nominal 1015-1020/1000-1080 mm effective cover width and 28-30 mm deep ribs with subtle square fluting in the five pan at nominal 202-205 mm centre-to-centre. The end rib shall be designed for anti-capillary action, to avoid any seepage of water through the lateral overlap. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) or 0.5mm TCT, Hi-strength steel with minimum 550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% Aluminium, 45% Zinc) as per AS 1397 —Zincalume AZ150 (Min. 150 gms/sq.mt total on both sides) with colourbond steel quality paint coat as per AS/NZS 2728 type 3-4. The paint shall have a total coating thickness of nominal 35 pm, comprising of nominal 20 pm exterior coat on top surface and nominal 5 pm reverse coat on back surface over nominal 5 pm primer coat on both surfaces of approved colour shade by concern authority. 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., complete as directed by Engineer-In-Charge. (Supply of material in the scope of contractor including all fasteners) etc. complete all as directed by engineer-in-charge.	143.00	Sq.m	529.00	75647.00
11	Supply & Fixing of 0.5 mm thick colour sheet flashings hood / ridges/ triangular portion closers to require shape with self threaded screws etc. complete all as directed by engineer-in-charge.	22.00	Sq.M	900.00	19800.00
12	Supply or road roller of 8 to 10 tonne capacity for levelling the area, as directed by engineer-in-charge. It should work minimum 8 machine hours per a day. Rate includes all charges like fuel, hire charges etc. complete all as directed by engineer-in-charge.	3.00	Day	1,500.00	4,500.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
13	Supply of JCB for turning and tilting the soil at plate and pipe yard area, as directed by engineer-in-charge. It should work minimum 8 machine hours per a day. Rate includes all charges like fuel, hire charges etc. complete all as directed by engineer-in-charge.	48.00	One M/C hour	800.00	38,400.00
14	Supply and stacking of stone dust including transportation and spreading etc. complete all as directed by engineer-in-charge.	24.00	Cu.m	1,017.50	24,420.00
15	Laying old cement concrete interlocking paver blocks of any design/shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost).	120.00	Sq.M	159.20	19,104.00
	Total of civil work			₹	4,91,644.48
	Electrical work				
1	Shifting, Fixing, connecting and testing of 2x36W different types of BHEL free issued Tube light/false ceiling fittings. The light fitting shall be fixed with suitable down rod, ball and socket etc. and the supply of the down rod, ball and socket is in the contractor's scope .The job includes supply of 1.5sq.mm copper wire for connection between ceiling rose and TL etc. complete all as directed by engineer-in-charge.	4.00	Nos	590.00	2,360.00
2	Supply and fixing of 3pin, 250 V. 10 Amps power socket cum switch with indication Roma type code 21113 and 21033 of Anchor make or North West. Fixed on suitable modular type concealed box top cover. Testing & commissioning etc. complete all as directed by engineer-in-charge.	1.00	Nos	282.00	282.00
3	Supply and fixing of 10 Amps 250 V. SP switches for control of light fitting and fans with Roma Type code : 21011 of Anchor or North West make. Fixed on a suitable modular type concealed box with suitable top cover. Testing & commissioning etc. complete all as directed by engineer-in-charge.	4.00	Nos	435.00	1,740.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
4	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 etc. complete all as directed by engineer-in-charge.	5.00	Pts	1,162.00	5,810.00
5	Erection & Commissioning of 16A ICTPN Sheet Enclosed switch of BHEL free issued etc. complete all as directed by engineer-in-charge.	1.00	Nos	340.00	340.00
6	Supply and Laying of annealed 8 SWG GI Wire and connected to the existing earth flat in the cable trench etc. complete all as directed by engineer-in-charge.	40.00	RM	15.00	600.00
7	Excavation of cable trench(500x600mm)				
	i) In soil, excavation of 600mm deep and 500mm width trench, supply & spreading of sand, supply & laying of bricks & shabad stone as per IS:1255 1983 and back filling after cable laid with marking plates etc. complete all as directed by engineer-in-charge.	20.00	Mts	275.00	5,500.00
8	Shifting and laying of LT power PVC armoured aluminium/Copper cable including Dressing etc. complete all as directed by engineer-in-charge.				
	a) 4C x 10/6/4sq.mm	40.00	Mts	11.00	440.00
9	Power cable termination including supply of cable glands & lugs(Copper/Aluminium).				
	a) 4C x 10/6/4sq.mm	2.00	Nos	215.00	430.00
	Total of electrical work			₹	17,502.00
	Total value of work			₹	5,09,146.48

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 bhara tax, Krishi Kalyan Cess 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.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
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 produce medical fitness certificate from Government doctor for his workman for suitability of workers to work on heights.				
8	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=₹ 494.80, SSW=₹ 546.15, SW = ₹ 596.96 + ESI + PF + PPE's and other statutory if any.				
9	The agency has to bring police clearance certificate before engaging on work.				

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		