

BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM :: HYDERABAD-502032
(TOWNSHIP ADMINISTRATION)

Tender Notice No.
HY/TA/OT-02/2017-18
Date: 15.09.2017

Schedule - A

Name of work: Construction of Toilet block in General Hospital

Sl. No	Description of Item	Qty	Unit	Rate in Rs.	Amount in Rs.
Part-A:- Civil Works					
1	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	200	One Sqm	2.47	494.00
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth. 1.5 m in width as well as 10 Sqm on plan) including disposal of excavated earth, within a lead of 50 m and lift up to 1.5 m disposed earth to be levelled and neatly dressed for all kind of soils all as directed by Engineer-in-charge	40.00	One Cum	129.35	5174.00
3	Plain cement concrete 1:5:10 mix using 40 mm guage down graded machine crushed granite metal in foundation including consolidation, curing and cost of all materials etc complete.	5.00	One Cum	3087.45	11207.50
4	Coursed rubble stone masonry 2nd sort with hard granite stone in foundation and plinth with cement mortar 1:6 (1 cement : 6 coarse sand) including curing cost of all materials as directed by Engineer-in-charge.	12.00	One Cum	3255.25	32836.00
5	Brick work with ground moulded bricks in cement mortar 1:6 (1 cement : 6 coarse sand) including curing, cost of all materials etc complete all as directed by Engineer-in-charge.	19.00	One Cum	3316.55	54086.07
6	Plastering in CM 1:6, 20 mm thick including neat finishing , curing, cost of all materials, labour etc.complete.	40.00	One Sqm	95.10	2399.56
7	Supply, fabrication and fixing of ornamental MS grills of approved quality and design including fixing of MS hold fasts in Cement concrete, cost of all materials etc., complete as directed by the Engineer-in-charge.	50.00	Kgs	98.20	4795.33
8	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy bottle green black of any size as approved by engineer in charge in skirting risers of steps and dados over 12mm thick bed of cement including pigment of matching shade , hacking the existing surface, cleaning the surface with water, grouting the joints with pigment in wet condition, including loading, unloading and conveyance to site all as directed by Engineer-in-charge.	48.00	One Sqm	724.25	30252.62
9	Providing and laying nonskid floor tiles 300x300mm (thickness to be specified by the manufacture) of 1 st quality conforming IS 15622 of approved make in colours such as white ivory grey fume red brown laid on 20mm thick cement mortar 1:4(1 cement 4 coarse sand) including pointing the joints with white cement and matching pigment, hacking the existing surface, cleaning the surface with water, grouting the joints with pigment in wet condition, including loading, unloading and conveyance to site all as directed by Engineer-in-charge. etc. complete.	18.00	One Sqm	764.55	12014.25
10	Labour charges Fixing of Hi-rib s galvalume /Zincalume sheets of 0.5 mm tk. 1 mtr width and length upto 12 mts with factory cut and fixing to the roof shall be crest fixed to roofpurlins with number 12-14 x 55 mm polymer coated galvanised hex head self drilling screws with integral washers and EPDM seals (4 fasteners for support) for sheet etc., complete asdirected - For roofing, side cladding and louvers with necessary fixtures. All the safety measures should be taken care by the agency itself. [Excluding cost of galvalume sheets which will be issued free of cost by BHEL .	20.00	One Sqm	105.00	2100.00

11	Labour charges for fabrication and erection of structural steel including cost of welding rods, power charges etc complete all as directed by Engineer-in-charge . (structural steel will be issued free of cost from BHEL stores).	150.00	Kgs	50.00	7500.00
12	Applying two or more coats of oil bound distemper of approved brand and shade including priming coat with cement primer on new works to give an even shade including cost of all materials etc. complete .	80.00	Sqm	66.70	5284.17
13	Finishing walls with Acrylic Smooth exterior paint of required shade over the New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including base coat of water proofing cement paint applied @ 2.20 kg/10sqm.	50.00	Sqm	67.50	3298.73
14	Applying two or more coats of synthetic enamel paint of approved brand and manufacturer to give an even shade on new work including cost of all materials etc. complete as directed by Engineer Incharge.	5.00	sqm	53.85	261.62
15	Damp proof course in cement mortar 1:4, 20 mm thick mixed with best water proofing compound of approved brand at the rate of 2% by weight of cement, neat finishing, curing etc, complete all as directed by Engineer-in-charge.	20.00	One Sqm	207.55	2460.49
16	Supplying & fixing CI Nahany traps 1st quality ISI marked conforming to IS:1729-1979 with C.P. Grating fixing with white cement as per site requirements with standard practice for 100 mm dia Inlet- 75 mm (3") outlet pipe - 4 Kgs	3.00	Each	279.00	806.10
17	Supplying & fixing of GI pipes TATA/ZINDAL make (Class-B) with all necessary fittings including excavation, making holes, fixing clamps wherever necessary and repairing the holes, refilling the trenches, cost of all materials etc complete as directed for 20 mm dia (3/4") dia.	25.00	One Rmt	188.05	4559.80
18	Supplying & fixing of GI pipes TATA/ZINDAL make (Class-B) with all necessary fittings including excavation, making holes, fixing clamps wherever necessary and repairing the holes, refilling the trenches, cost of all materials etc complete as directed for 15 mm dia (1/2") dia.	25.00	One Rmt	161.60	3921.55
19	Supplying & fixing 150 mm x 100 mm SWG gully traps conforming to ISI 651 & 4127 with C.I Grating & Cost. Brick masonry in CM 1:6 prop. Intermediate chamber and fitted with 304.8 mm x 288.6mm (12"x9") C.I Frame and hinged cover.	3.00	Nos	530	1554.45
20	Providing and fixing 15 mm nominal bore C.P. brass stop cock(concealed) of standard design and of approved make confirming to IS:8931.	2.00	Nos	426.55	818.10
21	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes75 mm diameter with proper slope complete all as directed by Engineer-in-charge. Make: Prince/sudhakar	12.00	Rmt	124.90	1454.99
22	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes 100 mm with proper slope complete all as directed by Engineer-in-charge Make: Prince/sudhakar	12.00	Rmt	206.90	2402.20
23	Constructing brick masnory chamber for underground CI inspection chamber and bends with 75 class designation bricks in cement mortar 1:4(1 cement 4 coarse sand) CI cover with frame (light duty) 455x610mm internal dimensions total weight of cover with frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) RCC top slab with 1:2:4 mix(1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) foundation concrete 1:5:10 (1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3(1cement 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc, complete as per standard design.Inside dimensions 455x610mm and 45 cm deep for single pipe line	1.00	Nos	3917.65	3213.21

24	Earth work in excavation by mechanical means (hydraulic excavator) manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.Hard rock (requiring blasting)	1	cum	347.80	347.80
25	Refilling the foundations and basement with excavated soils including watering, consolidation etc. complete all as directed by Engineer -in-charge.	10	Cum	83.80	838.00
26	Coveyance of excavated earth upto a lead of 2 km as directed by engineer- in - charge.	5.00	One Cum	75.15	375.75
27	Providing, laying and joining glazed stone ware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc., complete, of 150 mm diameter all as directed by Engineer-in-charge.	20.00	Rmt	219.05	3901.06
28	Supply and fixing wash hand basin with CI brackets painted white CP brass waste coupling of 160 grams weight CP brass chain with plug, CP brass stop cock die cast (300 grams weight) PVC connection, PVC waste pipe of 32 mm dia of required length, CP brass trap (350 grams weight) with necessary screws, wooden plugs etc, complete including cutting and making good the walls wherever required complete all as directed by Engr-in-charge. Size: White Vitreous China Flat back wash basin size 550x 400 mm. Make: Cera/Parryware/Hindware	1.00	Each	1460.50	1398.90
29	Providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall dimension as below (tolerance ± 1 mm) with wall thickness 2.0mm \pm 0.2mm, corners of the door frame to be mitred and welded of plastic, galvanized brackets and stainless steel screws.The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and 1mm \pm 0.1mm wall thickness and 3 nos. stainless steel hinges fixed to the frame extruded section profile size 48x40mm. complete as per manufacturers specification and direction of Engineer-in-charge.	10.00	Rmt	185.15	1780.50
30	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete	1.00	Nos	662.80	635.66
31	24mm thick factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59x24mm and wall thickness 2mm \pm 0.2mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of MS galvanised / plastic brackets of size 75x220 mm having wall thickness 1.0mm and stainless steel screws. the styles of the shutter reinforced by inserting galvanised MS tube of size 20x20mm and 1mm \pm 0.1mm wall thickness. the lock rail made up of H section a UPVC hollow section of size 100x24 mm and 2 mm \pm 0.2mm wall thickness fixed to the shutter styles by means of plastic/ galvanised MS.U cleats. the shutter frame filled with a UPVC multi chambered single panel of size not less than 620 mm having over all thickness of 20mm and 1mm \pm 0.1mm wall thickness. the panels filled vertically and tie bar at two places by inserting horizontally 6mm galvanised MS rod and fastened with nuts and washers, complete as per manufacture's specification and washers complete as per manufacture's specification and direction of engineer in charge. (for W.C and bathroom door shutter).	2.72	Sqm	2471.10	6445.99
32	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought and fixing in position in second class teak wood.	0.03	cum	85813.30	2364.87
33	Supplying and fixing 30mm thick ISI marked solid core flush door veneer facing shutters conforming to IS:2201 (Part I) commercial type, all as directed by engineer-In-charge.	1.89	Sqm	1934	3541.10

34	Providing and fixing ISI marked oxidised M.S. pressed butt hinges of size 75 x 47 x 1.70 mm with necessary screws etc all as directed by Engineer-in-charge.	9	Nos	16.85	147.96
35	Providing and fixing ISI marked oxidised M.S. tower bolt black finish(Barrel type) of size 100x10 mm with necessary screws etc all as directed by Engineer-in-charge.	6	Nos	29.4	168.09
36	Providing and fixing ISI marked oxidised M.S. Handls conforming to IS:4992 of size 125 mm with necessary screws etc all as directed by Engineer-in-charge.	6	Nos	23.8	136.98
37	Providing and fixing ISI marked oxidised M.S. aldrops of size 300 mm with necessary screws etc all as directed by Engineer-in-charge. (176.00+20% Fitting)	1	Nos	211.20	202.70
38	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two or more coats on new work	20	Sqm	53.85	1061.13
39	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :Rectangular shape 453x357 mm.	1	Nos	598.30	582.95
40	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and making good the walls and floors wherever required :brackets, cutting andmaking good the walls and floors wherever required :One urinal basin with 5 litre white P.V.C. automatic flushing cistern. Make: Cera/Parryware/Hindware	5	No	2,844.40	13844.87
41	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.White Agaria Marble Stone	2.1	Each	1,963.50	3944.70
42	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required W.C. pan with ISI marked white solid plastic seat and lidW.C. pan with ISI marked white solid plastic seat and lid. Make: Cera/Parryware/Hindware	1.00	No	2885.10	2801.60
43	Providing and fixing water closet squatting pan (Indian type W.C.pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests Make: Cera/Parryware/Hindware	1.00	No	2964.10	2877.20
44	Supply and fixing angle stop cock 12.7 mm dia first quality Indian Make heavy duty Seiko/ Senior/ Nice .	3.00	No	443.00	1268.85
45	Supply & fixing Healthfacet with all fitting making good the walls as per the direction of Engineer-in-charge (model ALD CHR 579 Jaquar make)	1	Nos	1326.00	1316.00
46	Providing and fixing uplasticised PVC connection pipe with brass unions: 45 cm length 15 mm nominal bore	3	Nos	61.70	180.15
47	Ellis pattern flooring 20 mm thick cement concrete using one cement and three granite stone metal chippings of 3 to 10mm guage including fine finishing, neat thread lining, curing, cost of all materials etc. complete.	3	Sqm	196.00	566.29
Sub total					243,623.82

Part-B:- Electrical Works					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required; complete all as directed by Engr-in-charge.	6	Each	619	3618.44
2	Supply and fixing 3-pin, 5 Amps. ceiling rose / PVC batten / angle holder (ISI marked) including connection etc. as required; complete all as directed by Engr-in-charge.	6	Each	34	200.08
3	Supply and fixing of 6 Amps. piano type switch and 3 pin 6 Amps. socket outlet on the existing switch box / cover including connections etc. as required; complete all as directed by Engr-in-charge.	1	Each	65	63.83
4	Supply & wiring for circuit / submain wiring alongwith earth wire with 2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire, all of FR PVC insulated multistranded copper conductor, single core cable in surface/ recessed medium class PVC conduit as required; complete all as directed by Engineer-in-charge.	40	Metre	131	5088.54
5	Supply, installation, connecting to the point and commissioning of 1 x 28W T5 fluorescent fitting with electronic ballast and lamp of Phillips / Crompton / Bajaj / Surya / Havells make with all accessories directly on ceiling / wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required; all complete as directed by Engineer-in-charge.	3	Each	919.5	2630.18
6	Supply, installation, connecting to the point and commissioning of 12" (300mm) sweep, 900 RPM Heavy duty exhaust fan with metallic blades of Crompton / Bajaj / Almounard / Havells make in the existing opening including making good the damage etc. complete as directed by Engr-in-charge.	3	Each	2808	8022.53
Sub total					19,623.60
Grand total (A+B) (Rupees Two lakhs sixty three thousand two hundred forty seven and paise forty two only)					263,247.42

Note:

1. Only Cement, Steel, and GI sheets will be free issued by BHEL Store.
2. All the terms & 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 & conditions will be modified in accordance with the provisions of new laws (e.g., GST)

Tender %	In words	Figures
Excess		
Less		
Estimate		

Notes:

1	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work subject to a maximum penalty of 10% of the gross value of work.
2	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.
3	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.
4	The maintenance period of the work is 06 months . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill.