

BHARAT HEAVY ELECTRICALS LIMITED

RAMACHANDRAPURAM :: HYDERABAD-502032

(TOWNSHIP ADMINISTRATION)

Price Bid - Part - B - Item No.01**Tender Notice No:****HY/TA/OT-15/2014-15****Date: 25.02.2014,****Name of work: Renovation of 56 nos of Type-III Quarters in Township similar to Model Block 601(one block)**

Sl. No	Description	Qty/14 block	Unit	Rate	Amount
1	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50mtr lead	11932.34	sqm	8.20	97845.19
2	Plastering in cement mortar 1:6, 20 mm thick including curing, cost of all materials etc, complete all as directed by Engineer-in-charge	13332.34	sqm	65.83	877667.94
3	Demolishing concrete 1:4:8 or leaner mix manually / by mechanical means including disposal of material within 50mtr lead as per direction of engineer in charge.	1698.17	cum	226.90	385315.23
4	Reinforced cement concrete work in walls 1:2:4(1cement 2 coarse sand 4 grade stone aggregate 20mm nominal size) (any thickness) including attached pilasters buttresses plinth and string course fillets columns pillars piers abutments posts and struts etc. up to floor five level excluding cost of centering shuttering finishing and reinforcement.	22.90	cum	2047.44	46894.57
5	Supply and fixing of 8 mm thick mirror polished Granite stone of any colour and shade of required size black or other approved shade and texture laid over 12mm thick bed of cement mortar 1:3(1 white cement 3 coarse sand) including pointing in white cement with an admixture of pigment to match the stone shade including rubbing, curing grinding etc complete as directed by Engineer-in-charge	77.28	sqm	989.18	76443.83
6	Concealed G.I.pipe 15mm dia nominal bore including painting with anti corrosive bitumstic paint cutting chases and making good the wall.	1358.00	rmt	144.75	196570.50
7	Dismantling of the existing specials and Supplying & Fixing 110 mm plug bend Prince / Sudhakar make (U.V. resistant UPVC) SWR pipe fittings (as per ISI standards) etc complete all as directed by Engineer-in-charge.	112.00	each	119.00	13328.00
8	Dismantling of the existing AC/PVC Pipe (old pipes are to be handed over to department as per instructions of the Engineer-in-charge) and supplying & fixing of 75 mm dia Prince/ Sudhakar make as approved by Engineer-in-charge of PVC / SWR pipes (as per ISI standards) 4 kgs/ cm ² . etc complete all as directed by Engineer-in-charge.	406.00	rmt	84.00	34104.00
9	Dismantling and replacing with new ones of approved make including chasing of brick work / concrete, making good in CM cost of all materials, curing for the following items etc complete all as directed by Engineer-in-charge.	0.00			0.00
a	CP consealed stop cock 1/2" dia with internal brass threadings.	84.00	each	191.70	16102.80
b	1/2" X 18" PVC pipe connections. (Heavy duty).	168.00	each	44.75	7518.00
10	Dismantling of the existing specials and Supplying & Fixing of 110 mm dia Single 'Y' with door, Prince / Sudhakar make (U.V. resistant UPVC) SWR pipe fittings (as per ISI standards) etc complete all as directed by Engineer-in-charge.	84.00	each	170.00	14280.00
11	Providing and fixing 15 mm nominal bore CP brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810grms	280.00	each	262.05	73374.00
12	Providing and fixing 15 mm nominal bore CP brass stop cock (concealed) of standard design and of approved make conforming to IS 8931	56.00	each	262.55	14702.80
13	Dismantling and replacing C.P. Nahani trap jalties 5" dia.with new ones of approved make including cost of all materials etc complete all as directed by Engineer-in-charge.	168.00	each	13.89	2333.52
14	Dismantling of the existing specials and Supplying & Fixing 110 mm plain bend Prince / Sudhakar make (U.V. resistant UPVC) SWR pipe fittings (as per ISI standards) etc complete all as directed by Engineer-in-charge.	140.00	each	99.00	13860.00
15	Dismantling and replacing C.I. brackets. with new ones of approved make including cost of all materials etc complete all as directed by Engineer-in-charge.	56.00	each	64.84	3631.04

CONTRATOR

ISSUEING OFFICER

Sl. No	Description	Qty/14 block	Unit	Rate	Amount
16	Dismantling of the existing specials and Supplying & Fixing of 110 mm dia pipe clip.Prince / Sudhakar make (U.V. resistant UPVC) SWR pipe fittings (as per ISI standards) etc complete all as directed by Engineer-in-charge.	504.00	each	18.00	9072.00
17	Dismantling of the existing specials and Supplying & Fixing of 75 mm dia pipe clip.Prince / Sudhakar make (U.V. resistant UPVC) SWR pipe fittings (as per ISI standards) etc complete all as directed by Engineer-in-charge.	308.00	each	15.00	4620.00
18	Dismantling of the existing specials and Supplying & Fixing of 75 mm dia plain bend.Prince / Sudhakar make (U.V. resistant UPVC) SWR pipe fittings (as per ISI standards) etc complete all as directed by Engineer-in-charge.	140.00	each	66.00	9240.00
19	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade over New/old work (two or more coats) over and including priming coat with cement primer.	12619.60	sqm	41.55	524344.38
20	24mm thick factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59x24mm and wall thickness 2mm + 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 + 0.1mm wall thickness. the lock rail made up of H section a UPVC hollow section of size 100x24 mm and 2 mm + 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 + 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)	168.00	sqm	2190.50	368004.00
21	Providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall dimensions as below (tolerance -1mm) with wall thickness 2.0mm + 0.2mm, corners of the door frame to be mitred and welded of pastic, galvanized brackets and stainless steel screws . the hinges side vertical of the frames reinforced by galvanized stainless steel hinges fixed to the frame complete as per manufactures specification and direction of engineer in charge.Extruded section profile size 48x40mm.	525.00	rmt	141.00	74025.00
22	Extra for providing heavy sheet float glass panes 5.5mm thick instead of 4mm thick instead of ordinary float glass in glazed doors windows and clerestory window shutters(area of opening for glass panes excluding portion inside rebate shall be measured)	140.00	Sqm	106.85	14959.00
23	Providing impervious coat in CM 1:4, 20 mm thick using approved water proofing compound at one Kg/bag of cement when the roof slab is green including arranging proper slopes, for easy flow of rain water, curing etc complete.	1790.60	Sqm	78.39	140365.13
24	Providing and laying in position cement concrete of 1:4:8 (1cement 4:coares sand 8 grade stone aggregate 20mm nominal size) excluding the cost of centering and shuttering- All work upto plinth level.	140.42	cum	1560.45	219118.39
25	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.	1290.66	Sqm	78.74	101626.57
26	Brick work in cement mortar 1:6(1cement :6 coarse sand) with FPS bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes.	65.52	cum	2103.58	137826.56
27	Removing and refixing GI pipe 13 to 40 mm dia including cost of jointing materials such as specials like collars, elbows, bends etc complete all as directed by Engineer-in-charge.	420.00	rmt	35.79	15031.80
28	Cleaning jungle including uprooting of rank vegetation, grass brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 5 Km outside the periphery of the area cleared etc complete all as directed by Engineer-in-charge.	8181.60	Sqm	2.64	21599.42

CONTRATOR

ISSUEING OFFICER

Sl. No	Description	Qty/14 block	Unit	Rate	Amount
29	Constructing masonry chamber 60x60x75 cm inside with 75 class designation brick work in cement mortar 1:4 (1 cement 4 coarse sand) for sluice valve with CI surface box 100mm top diameter 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3(1 cement 3 coarsed sand) 12mm thick finished with a floating coat of neat cement complete as per standard design.With FPS bricks.	98.00	Each	2709.17	265498.66
30	Felling trees of the girth (measured at a height of 1m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unsserviceable material.Beyond 30cm girth upto and including 60cm girth	140.00	Each	81.70	11438.00
31	Cleaning and removing all un wanted things from the roof terrace of various buildings at an elevated level of 12 to 20 metre from FFL. Rate includes labour, tools, wire brush, brooms, baskets etc., sweeping and clearing off all dirt, silt, dust, leaves and other foreign matters etc, with out damaging the terrace treatment and thereby collecting all the wastes in bags / casketc, lowering to ground floor with out affecting the working environment and dumping the same in the near by dust bins / earmarked areas / low lying areas etc complete. Sweeping has to be done only as and when necessary. Payment will be made only for the areas where actually the job was carried out.	1960.00	Sqm	1.15	2254.00
32	Removing of silt and debris from the open drains and removing and replacing of approach paths wherever required to remove the silt underneath the approach paths, including loading, unloading and conveyance to a distance of 2 kms and spreading at the places as directed by the Engineer-in-charge.	771.68	rmt	5.32	4105.34
33	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.All kinds of soil	280.00	cum	101.85	28518.00
34	Painting the external wall surfaces by applying two or more coats of Acrylic smooth exterior paint (after completion of one coat prior clearance to be taken to apply the second coat with department officials) of BHEL supplied paint on existing old surface, including scrapping, cost of thinner, brushes labour, ladders, scaffolding, tools and other incidentals etc. complete up to 7m height including rectifying the wall cracks, patches etc with Birla wall care putty crack filler etc complete all as directed by Engineer-in-charge (only acrylic paint will be supplied by BHEL, free of cost at Township stores as per norms) . All the safety precautions would be responsibility of the contractor.	2800.00	Sqm	12.44	34832.00
35	Labour charges for fixing of chain link mesh with a required tools etc complete all as directed by Engineer-in-charge. The required binding wire or any materials will be arranged by the BHEL. (Chain link mesh will be free issue from BHEL store)	2520.00	Sqm	20.00	50400.00
36	Conveyance by Manual or Mechanical means of Earth including loading un-loading with lift of 50 m upto lead mentoned below all complete all as directed by Engineer in charge	280.00	cum	56.41	15794.80
37	Repairs to the existing doors, windows, ventilators and cup boards including frame, shutters, fittings, weldmesh, T.W beadings etc., all as directed by the Engineer-in-charge.	280.00	Sqm	144.20	40376.00
38	Providing and fixing of 30mm thick including ISI marked stainless steel butt hinges with necessary screws ISI marked flush door shutters conforming to IS 2202 (part I) decorative type core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross band and face veneers on both faces of shutters.	112.00	Sqm	1415.45	158530.40

Sl. No	Description	Qty/14 block	Unit	Rate	Amount
39	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 10mm gap for thermal expansion (i) single socketed pipes				
a	75mm diameter	280.00	Rmt	95.00	26600.00
b	110mm diameter	140.00	Rmt	163.40	22876.00
40	Providing wood work in frames of doors windows, clerestory windows and other frames, wrought framed and fixed in position.Second class teak wood.	3.50	cum	52090.00	182315.00
41	Dismantling and replacing of 1/2" Polymet bib taps (PTMT material) prayag make,with new ones of approved make including cost of all materials etc complete all as directed by Engineer-in-charge.	56.00	each	118.88	6657.28
42	Filling available excavated earth (excluding rock) in trenches, plinth sides of founding each deposited layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, lead upto 50m and lift up to 1.5m,.	70.00	cum	45.70	3199.00
43	Reinforcement Cold twisted bars for RCC work including straightening, cutting bending placing in position and binding all complete.(Steel will be free issue from BHEL store)	2800.00	kg	5.76	16128.00
44	Centering and shuttering including strutting propping etc. and removal of Form work for :Foundations , Footings, bases for columns	70.00	sqm	119.25	8347.50
45	Pole Estimate	0			0.00
a	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.All kinds of soil	28	cum	101.85	2851.80
b	Encasing Boundary poles and formation of new poles with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) including centring and shuttering but excluding cost of reinforcement etc. complete all as directed by Engineer-in-charge.	15.4	cum	1838.69	28315.83
c	Reinforced cement concrete work in walls 1:1.5:3(1cement 1.5 coarse sand 3 grade stone aggregate 20mm nominal size) (any thickness) including attached pilasters buttresses plinth and string course fillets columns pillars piers abutments posts and struts etc.	21	cum	2001.65	42034.65
d	Centering and shuttering including strutting propping etc. and removal of form work for :Columns piers, abutments, pillars, posts and struts.	504.00	sqm	238.40	120153.60
e	Reinforcement Cold twisted bars for RCC work including straightening, cutting bending placing in position and binding all complete.(Steel will be free issue from BHEL store)	1890.00	kg	5.76	10886.40
f	Erection RCC poles/M.S angles posts in position by conveying the same to the places as directed.	560.00	Each	32.98	18468.80
g	Filling available excavated earth (excluding rock) in trenches, plinth sides of founding each deposited layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, lead upto 50m and lift up to 1.5m,.	70.00	cum	45.70	3199.00
h	Conveyance by Manual or Mechanical means of Earth including loading un-loading with lift of 50 m upto lead mentoned below all complete all as directed by Engineer in charge	560.00	cum	56.41	31589.60
46	Laying of Anti-skid floor tiles 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in all colours shades except white Ivory, grey, gume red brown laid on over a base of cement based high polymer modified quick-set tile adhesive (water based) conforming to IS 15477 using not less than 5 kg adhesive per sqm of tile area , in average 3mm to 10 mm thick and hacking the existing surface including cost of all materials , neat finishing and jointing with coloured cement etc. complete all as directed by Engineer-in-charge. (Tile will be issued free of cost from BHEL store).	196.00	sqm	217.70	42669.20

Sl. No	Description	Qty/14 block	Unit	Rate	Amount
47	Fixing of 1st quality ceramic glazed wall tiles of size 200x300 mm 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 laid on over a base of cement based high polymer modified quick-set tile adhesive (water based) confirming to IS 15477 using not less than 5 kg adhesive per sqm of tile area , in average 3mm to 10 mm thick and hacking the existing surface including cost of all materials , neat finishing and jointing with coloured cement etc. complete all as directed by Engineer-in-charge. (Tile will be issued free of cost from BHEL store).	1897.28	sqm	237.54	450679.89
48	Laying of ceramic glazed floor tiles 395x395mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in all colours shades except white Ivory, grey, gume red brown laid on over a base of cement based high polymer modified quick-set tile adhesive (water based) confirming to IS 15477 using not less than 5 kg adhesive per sqm of tile area , in average 3mm to 10 mm thick and hacking the existing surface including cost of all materials , neat finishing and jointing with coloured cement etc. complete all as directed by Engineer-in-charge. (Tile will be issued free of cost from BHEL store).	3577.42	sqm	217.69	778768.56
49	Dismantling and fixing white vitreous china orissa pattern W.C. pan of size 580 mmx 440 mm with integral type foot rests (Indian type W.C pan) with sand cast iron P or S trap,10 litre low level white PVC flushing cistern 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.. (IWC and flush tank & Flush pipe will be free issue from BHEL store)	56.00	each	803.41	44990.96
50	Dismantling and fixing white vitreous china pedestal type water closet (european type WC pan with ISI marked white solid plastic seat and lid) 10ltr low level white PVC flushing cistern with manually controlled decice (handle level) conforming to IS 7231 with all fittings and fixtures complete including cutting and making good the wall and floors wherever required.. (EWC and flush tank & Flush pipe will be free issue from BHEL store) .	56.00	each	820.84	45967.04
51	Dismantling and fixing stainless steel A ISI 304(18/8) kitchen sink of size 610x510mm bowl depth 200mm as per IS 13983 with CI brackets and stainless steel plug 40mm including painting of fitting and brackets cutting and making good the walls wherever required. (Sink ,Brackets ,waste water pipe will be free issue from BHEL store) .	56.00	each	203.08	11372.48
52	Dismantling and fixing of white vitreous china wash basin size 630x450mm with a single 15mm CP brass pillar tap with CI brackets 15mm CP brass pillar taps 32mm CP brass waste of standard pattern including painting of fittings and brackets cutting and making good the walls wherever require.. (WHB and pillar tap,waste water pipe,waste couplng and brackets will be free issue from BHEL store)	56.00	each	278.02	15569.12
53	Dismantling the existing the tank and placing on terrace (at all floor levels) polyethylene water storage tank ISI 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet outlet and overflow pipes but without fitting and the base support for tank. (Sintex tank of 1000 ltrs capacity will be free issue from BHEL store)	56000.00	Lts	0.60	33600.00
54	Providing and applying altek luppam of 2 mm thickness over plastered surface to prepare the surface even and smooth including thorough scrapping to remove the old paint complete as directed by Engineer in charge.	12411.28	Sqm	47.20	585812.42
55	Carriage of MS Grill doors from Stores and erecting them at site/quarters in position within a lead of 2 kms, loading/unloading including mechanical transport complete as directed by engineer-in-charge. (MS grill door will be free issue from BHEL)	3.92	MT	2040.11	7997.23

Sl. No	Description	Qty/14 block	Unit	Rate	Amount
56	Providing 50 mm thick purdi walls and side drops in CM 1:4 at all floors including cost of form work, supplying and tying of chickenmesh net to reinforcement, cost of binding wire and providing border bands and openings if any, curing etc., complete but excluding cost and fabrication of M.S. reinforcement which will be paid for separately.	280.00	Sqm	336.64	94259.20
57	Fabrication, fixing and erection of M.S Gates / Ladder / Fencing Poles of all sizes including approved locking arrangements, necessary fixing materials, including cost of two coats of synthetic eanamel painting of approved shade and brand over a coat of redoxide primer etc.complete (Structural steel will be issued by BHEL free of cost at stores) .	5.32	One MT	10000.00	53200.00
a	Add cost of structural Steel	5.32	One MT		
58	Supply and fixing of Door viewer(Magic Eye) of 35mm-60mm length of zinc alloy make, gold color finish, to existing door shutters complete neat in all aspects as directed by engineer - in -charge.	56.00	Each	75.00	4200.00
59	Painting the external wall surfaces by applying two or more coats of Acrylic smooth exterior paint (after completion of one coat prior clearance to be taken to apply the second coat with department officials) on existing old surface, including scrapping, cost of thinner, cost of paint, brushes labour, ladders, scaffolding, tools and other incidentals etc. complete up to 7m height including rectifying the wall cracks, patches etc with Birla wall care putty crack filler etc complete all as directed by Engineer-in-charge . All the safety precautions would be responsibility of the contractor.	23856.00	Sqm	36.30	865972.80
60	Applying two or more coats of synthetic enamel paint of approved shade and brand to new work/old work including scrapping, cost of all materials and over an under coat of suitable shade with ordinary paint/primer of approved brand and manufacture etc., complete all as directed by Engineer-in-charge. (only Synthetic enamel paint will be supplied by BHEL, free of cost at Township)	2790.76	sqm	35.81	99937.12
61	Fixing of superior quality mirror with raw plug of 40-50 mm and necessary CP brass screws and washers etc.,complete as directed by engineer in charge. (Mirror will be free issue by BHEL)	56.00	Each	116.51	6524.56
Total Estimate Cost for 14 block (56 Quarters)					7790693.90

* The above estimates are excluding service tax.

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	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.
3	Service tax if paid by the contractor with respect to this work will be reimbursed by BHEL on production of documentary evidence for having paid the service tax by the contractor.
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 12 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	Cement/steel will be free issued from Departmental Stores.