

Bharat Heavy Electricals Limited
Ramachandrapuram Hyd-32
(Township Administrative)

Tender Notice No: HY/TA/OT-11/2011-12

Dated : 22.12.2011

Item No. : 04

Schedule-A (Bill of Quantities)

Name of work:- Renovation of two nos. of toilet blocks and replacement of under ground drainage systems of CISF barrack area.

SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount
				Figures	Words	
	PART-A (CIVIL WORK)					
1	Demolishing brickwork in cement mortar manually/by mechanical means including stacking of serviceable material and disposal of unserviceable material with in 50 metres lead as per direction of Engineer-in-charge.	50.00	One Cum	310.75	Rs: three hundred ten and paise seventy five only	15,537.50
2	Dismantling doors,windows and clerestory windows (steel/wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking with in 50 metres lead all as directed by Engineer-in-charge.	50.00	Each	54.60	Rs: fifty four and paise sixty only	2,730.00
3	Felling trees of the girth above 240 cm (measured at a height of 1m above ground level) including cutting of trunks and branches using cranes , power saw , removing the roots and stacking of serviceable material at BHEL nursery and disposal of unserviceable material with in a distance of 2kms. Etc complete all as directed by engineer-in-charge.	6.00	Each	3330.20	Rs: three thousand three hundred thirty and paise twenty only	19,981.20

Signature of contractor

Issuing Officer

SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount
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4	Half brick masonry in cement mortar 1:4 (1 cement : 4 coarse sand) with F.PS bricks of class designation 75 in superstructure above plinth level up to floor V level including curing, cost of all materials etc. complete all as directed by Engineer-in-charge.	155.00	One Sqm	302.80	Rs: three hundred two and paise eighty only	46,934.00
5	18mm cement plaster in two coats under layer 12mm thick cement plaster 1:5(1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand) including cost of curing etc. complete all as directed by Engineer- in- Charge.	600.00	One Sqm	111.15	Rs: one hundred eleven and paise fifteen only	66,690.00
6	Supply, fabrication and fixing of ornamental M.S grills/doors of approved quality and design including fixing of MS hold fasts in Cement concrete, cost of all materials fixtures etc., complete as directed by the Engineer-in-charge.	700.00	One Kg.	64.40	Rs: sixty four and paise forty only	45,080.00
7	Supply and fixing 1 st Quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer) 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 Mortar 1:3 (1 cement : 3 coarse sand and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete all as directed by Engineer-in-Charge.	670.00	One Sqm	556.60	Rs: five hundred fifty six and paise sixty only	3,72,922.00

SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount
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8	Providing and laying ceramic glazed non-skid floor tiles 300 x 300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make in colours such as White, Ivory, Grey, Fume, Red Brown, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigment and raking the existing surface of old floor before laying of tile etc., complete. all as directed by Engineer-in-charge.	175.00	One Sqm	598.65	Rs: five hundred ninety eight and paise sixty five only	1,04,763.75
9	Providing and fixing factory made UPVC door frame made of UPVC extruded section of size 48 x 40 mm (tolerance ± 1 mm) with wall thickness 2.0mm ± 0.2 mm , 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 19 mm and 1 mm ± 0.1 mm wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge.	228.00	One Rmt	141.00	Rs: one hundred forty one only	32,148.00

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10	Providing and fixing 24 mm thick factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59 x 24 mm and wall thickness 2 mm \pm 0.2 mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of M.S galvanised/ plastic brackets of size 75 x 220 mm having wall thickness 1.0mm and stainless screws. The styles of the shutter reinforced by inserting galvanised M.S tube of size 20 x 20 mm and 1mm \pm 0.1 mm wall thickness. The lock rail made up of ' H ' section, a UPVC hollow section of size 100 x 24 mm and 2mm \pm 0.2 mm wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S ' U ' cleats . The shutter frames filled with a UPVC multi-chambered single panel of size not less than 620 mm , having over all thickness of 20 mm and 1 mm \pm 0.1 mm wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	70.00	One Sqm	2190.50	Rs: two thousand one hundred ninety and paise fifty only	1,53,335.00
11	Applying two or more coats of oil bound distemper of approved brand and shade including priming coat with cement primer to give an even shade including cost of all materials etc. complete .	180.00	One Sqm	41.55	Rs: forty one and paise fifty five only	7,479.00
12	Applying two or more coats of Acrylic smooth exterior paint of required shade applied @ 1.67 ltr/10 sqm. Over and including base coat of water proofing cement paint applied @ 2.20 kg/ 10 sqm of approved brand and shade including cost of all materials etc. complete .	330.00	One Sqm	50.40	Rs: fifty and paise forty only	16,632.00
13	Applying two or more coats of synthetic enamel paint of approved brand and manufacturer to give an even shade including cost of all materials etc. complete .	225.00	One Sqm	35.35	Rs: thirty five and paise thirty five only	7,953.75

SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount	
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14	Demolishing cement concrete manually/ by mechanical means of 1:4:8 or leaner mix including disposal of materials with in 3 KM lead as per direction of engineer-in-charge.	30.00	One Cum	226.90	Rs: two hundred twenty six and paise ninety only	6,807.00	
15	Plain Cement Concrete 1:5:10 mix using 40 mm guage down graded hard granite metal including curing, cost of all materials etc., complete.	43.00	One Cum	2079.60	Rs: two thousand seventy nine and paise sixty only	89,422.80	
16	Ellis pattern flooring with 20 mm thick cement concrete using one cement and 3 granite stone chipping of 3 to 10 mm guage including fine finishing, neat thread lining, curing, cost of all materials etc complete as directed by Engineer-in-charge.	200.00	One Sqm	140.00	Rs: one hundred forty only	28,000.00	
	SANITARY & WATER SUPPLY ITEMS						
17	i	Providing and fixing white vitreous china Orissa pattern W.C pan of size 580 x 440 mm with integral type foot rests with 100 mm sand cast iron P or S trap, 10 litre low level white P.V.C 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 etc. complete all as directed by Engineer-in-charge.	16.00	Each	2304.65	Rs: two thousand three hundred four and paise sixty five only	36,874.40
	ii	Supply and fixing white vitreous china pedestal type water closet (European type W.C. pan) with white solid plastic seat and lid, 10 litre low level white P.V.C. 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 etc. complete all as directed by Engineer-in-charge.	8.00	Each	2152.50	Rs: two thousand one hundred fifty two and paise fifty only	17,220.00

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SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount
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iii	Supplying & Fixing CI Nahani 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 100 mm dia inlet-75 mm(3") outlet pipe - 4 kgs. All as directed by Engineer-in-charge	36.00	Each	200.00	Rs: two hundred only	7,200.00
iv	Supply and fixing 150 mm x 100 mm SWG gully traps of ISI make conforming to ISI 651 & 4127 with C.I. Grating & Constg. Brick masonry in CM 1:6 prop. Intermediate chamber and fitted with 304.8 mm x 288.6 mm (12" x 9") C.I. Frame and hinged cover etc. complete.	15.00	Each	321.00	Rs: three hundred twenty one only	4,815.00
v	Providing and fixing 15 mm nominal bore C.P short body brass bibcock of approved quality conforming to IS:8931 etc .complete.	30.00	Each	313.10	Rs: three hundred thirteen and paise ten only	9,393.00
vi	Providing and fixing 15 mm nominal bore C.P long body brass bibcock of approved quality conforming to IS standards and weighing not less than 690 gms etc .complete.	30.00	Each	315.80	Rs: three hundred fifteen and paise eighty only	9,474.00
vii	Providing and fixing PTMT bib cock of 15 mm nominal bore, 86mm long, weighing not less than 88 gms of approved quality and colour etc. complete.	20.00	Each	120.85	Rs: one hundred twenty and paise eighty five only	2,417.00
viii	Providing and fixing of G.I.Pipes of 25 mm dia complete with G.I. Fittings and clamps including cutting and making good the walls etc. complete.	140.00	One RMT	179.65	Rs: one hundred seventy nine and paise sixty five only	25,151.00
ix	Providing and fixing of G.I.Pipes of 20 mm dia complete with G.I. Fittings and clamps including cutting and making good the walls etc. complete.	120.00	One RMT	133.85	Rs: one hundred thirty three and paise eighty five only	16,062.00
x	Providing and fixing of G.I.Pipes of 15 mm dia complete with G.I. Fittings and clamps including cutting and making good the walls etc. complete.	100.00	One RMT	105.85	Rs: one hundred five and paise eighty five only	10,585.00

SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount	
				Figures	Words		
18	Providing an fixing on wall face unplasticised Rigid PVC rain water pipes of 110 mm dia conforming to IS : 13592 Type- A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion including cost of all materials etc complete all as directed by Engineer- in-charge.	100.00	One RMT	163.40	Rs: one hundred sixty three and paise forty only	16,340.00	
19	i	Dismantling the existing one if necessary & Constructing brick masonry chamber of inside dimensions 455 x 610 mm and and up to 914.4mm (3'-0) deep for single pipe line for underground C.I inspection chamber and bends with 75 class designation bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I cover with frame (light duty) 455 x 610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C top slab with 1:2:4 mix (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) , inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design with F.P.S bricks etc. complete all as directed by Engineer-in-charge.	17.00	Each	3146.40	Rs: three thousand one hundred forty six and paise forty only	53,488.80
	ii	Dismantling the existing one if necessary & Constructing 914.4 mm x 457.2 mm (3'0" x 1'6") brick in CM 1:6 Prop.masonry inspection chamber up to 914.4 mm (3'0") and fitted with light weight 914.4 mm x 457.2 mm (3'0" x 1'6") C.I frame and cover of 40 Kg. etc. complete all as directed by Engineer-in-charge.	12.00	Each	3226.00	Rs: three thousand two hundred twenty six only	38,712.00

SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount	
				Figures	Words		
20	i	Constructing brick masonry circular type manhole upto 0.91 M depth and 0.91 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) , in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand:6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement all complete as per standard design of 0.91m deep with S.F.R.C cover and frame (heavy duty , HD-20 grade designation) 560 mm internal diameter conforming to IS : 12592, total weight of cover and frame not to be less than 182 kg , fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete with F.P.S brick class designation 75 etc. complete all as specification and direction of	10.00	Each	4,933.50	Rs: four thousand nine hundred thirty three and paise fifty only	49,335.00
	ii	Extra depth for circular type man hole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m with F.P.S bricks class designation 75 etc complete all as directed by engineer-in-charge.	5.00	One RMT	2,289.80	Rs: two thousand two hundred eighty nine and paise eighty only	11,449.00
21	i	Dismantling the existing SWG pipes if any and providing, laying and jointing glazed stoneware pipes grade 'A' of 150 mm dia with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints and refilling etc. complete all as directed by Engineer-in-charge.	150.00	One RMT	151.65	Rs: one hundred fifty one and paise sixty five only	22,747.50

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				Figures	Words	
ii	Dismantling the existing SWG pipes if any and providing, laying and jointing glazed stoneware pipes grade 'A' of 230 mm dia with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints and refilling etc. complete all as directed by Engineer-in-charge.	120.00	One RMT	269.90	Rs: two hundred sixty nine and paise ninety only	32,388.00
		Rs: thirteen lakhs eighty thousand sixty seven and paise seventy only				1380067.70

Tender%	In words	Figures
Excess		
Less		
on estimated rate		

SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount
				Figures	Words	

Conditions

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 6 months . The security deposit will be released after satisfactory completion of the maintenance period.				

Signature of contractor

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