

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

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

Dated : 22.12.2011

Item No. : 02

**Schedule-A (Bill of Quantities)**

**Name of work:- Renovation of one Type-IV Block in Township - Civil works.**

SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount
				Figures	Words	
<b>PART-A (CIVIL WORKS)</b>						
1	Earth work in excavation all kinds of soils by mechanical means (Hydraulic excavation) / manual means over areas exceeding 30 cm indepth including disposal of excavated earth, lead up to 50m and all lift, disposed earth to be levelled and neatly dressed for all kinds of soil etc. complete all as directed by Engineer-in-charge.	40.00	One Cum	101.85	Rs: one hundred one and paise eighty five only	4,074.00
2	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering. All work upto plinth level. 1:4:8 (1 cement 4 fine sand 8 graded granite stone aggregate 40 mm nominal size).	9.00	One Cum	2296.15	Rs: two thousand two hundred ninety six and paise fifteen only	20,665.35
3	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).	0.90	One MT	10000.00	Rs: ten thousand only	9,000.00

Signature of contractor

Issuing Officer

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				Figures	Words	
4	Dismantling and disposal up to a distance of 2 kms. Lead , the following including the cost of labour, tools, transport etc. all complete all as directed by Engineer-in-charge.					
	a Plain Cement Concrete	2.00	One Cum	226.90	Rs: two hundred twenty six and paise ninety only	453.80
	b Brick work	1.00	One Cum	310.75	Rs: three hundred ten and paise seventy five only	310.75
	c Reinforced Cement Concrete	2.00	One Cum	537.55	Rs: five hundred thirty seven and paise fifty five only	1,075.10
	d Coursed Rubble Stone Masonry	1.00	One Cum	370.75	Rs: three hundred seventy and paise seventy five only	370.75
	e Plastering in walls	400.00	One Sqm	8.20	Rs: eight and paise twenty only	3,280.00
	f Plastering in ceilings	100.00	One Sqm	8.20	Rs: eight and paise twenty only	820.00
	g sanitary fittings such as Wash Basins, Water closets, sinks etc.	20.00	Each	50.00	Rs: fifty only	1,000.00
	h G.I pipe 15mm/20mm/25mm dia including specials.	210.00	One Rmt	10.00	Rs: ten only	2,100.00
	i cement flooring	5.00	One Cum	226.90	Rs: two hundred twenty six and paise ninety only	1,134.50

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SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount
				Figures	Words	
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.	11.00	One Cum	2121.75	Rs: two thousand one hundred twenty one and paise seventy five only	23,339.25
6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size of machine crushed) including curing and cost of all materials etc. complete all as directed by engineer-in-charge.	25.00	One Cum	2079.60	Rs: two thousand seventy nine and paise sixty only	51,990.00
7	Ellis pattern flooring 20mm thick cement concrete using 1 cement and 3 granite metal stone of chipping of 3 to 10 mm guage including fine finishing, neat thread lining, curing, cost of all materials etc complete.	100.00	One Sqm	140.00	Rs: one hundred forty only	14,000.00
8	Supplying and fixing chequerred precast cement concrete tiles of 22 mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shades of tiles including rubbing and cleaning etc.complete on 20 mm thick bed of cement mortar 1:4 ( 1 cement : 4 coarse sand) including cost of all materials all as directed by Engineer-in-charge.	35.00	One Sqm	425.70	Rs: four hundred twenty five and paise seventy only	14,899.50

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SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount
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9	Providing and laying ceramic glazed <b>floor tiles</b> 395 x 395 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 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.	400.00	One Sqm	589.40	Rs: five hundred eighty nine and paise forty only	2,35,760.00
10	Supply and fixing 1 st Quality ceramic glazed <b>wall tiles</b> 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.	185.00	One Sqm	556.60	Rs: five hundred fifty six and paise sixty only	1,02,971.00
11	Supply and fixing of 18mm thick mirror polished machine cut granite slab for kitchen platform of required size black or other approved shade and texture laid over 20 mm thick base cement mortar 1:4 by dismantling existing plaster and joints treated with white cement mixed with matching pigment epoxy touch up including rubbing, curing grinding etc complete as directed by Engineer-in-charge including disposal of debris upto 2 KM lead.	9.00	One Sqm	2575.10	Rs: two thousand five hundred seventy five and paise ten only	23,175.90

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SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount	
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12	Supplying and fixing of Tandar Blue 30mm Thick polished stone slabs for Stair Case and Landing over a base of CM 1:4 including neat finishing and jointing with cement etc complete. The rate shall include removing the existing floor and depositing of the debris to specified areas with in a lead of 2 KM (Stair case step slabs should be round at nosing).	27.00	One Sqm	309.59	Rs: three hundred nine and paise fifty nine only	8,358.93	
13	a	Plastering in cement mortar 1:6, 20 mm thick including curing, cost of all materials etc, complete all as directed by Engineer-in-charge	500.00	One Sqm	95.10	Rs: ninety five and paise ten only	47,550.00
	b	Plastering in cement mortar 1:3, 6 mm thick including curing, cost of all materials etc, complete all as directed by Engineer-in-charge.	80.00	One Sqm	62.15	Rs: sixty two and paise fifteen only	4,972.00
14	Supply and fixing of PVC Rain Water Pipes of 100 mm (4") dia including cost of all materials, specials, accessories and clamping with MS clamps at all heights of the building. The Pipe joints are to be sealed with solvent cement and the pipes are to be as per IS 4935-1981 and should withstand for pressure of 4 kgs / sq.cm. including dismantling and disposal upto 2 KM lead, of the existing AC Pipes.	14.00	One Sqm	163.40	Rs: one hundred sixty three and paise forty only	2,287.60	

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SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount	
				Figures	Words		
15	Supply and fixing of commercial type Double leaf / Single leaf Flush shutter 30mm thick of ISI make and approved brand including cost and fixing of fixtures, fittings and furnitures of superior quality etc., complete all as directed by the Engineer-in-charge. Fixtures and fittings shall be of approved brand and each door shall contain 3 Nos. of 100 mm long powder coated MS hinges per shutter, 2 Nos. of CP handles of 100 mmm grip size, 2 Nos. of CP Tower Bolts of 150 mm long and 10 mm dia barrel size and 1 No. CP Aldrop of size 300mm x 16mm etc., complete including dismantling and disposal, upto 2 KM lead of existing door Shutter as directed by the Engineer-in-charge.	15.00	One Sqm	1415.45	Rs: one thousand four hundred fifteen and paise forty five only	21,231.75	
16	Supply and fixing 4 mm thick door skins of approved design and colour as directed by the Engineer-in-charge. The skins are to be fixed on the existing door shutters, & Door frame with required quality of primer coat etc., complete.	17.00	One Sqm	577.40	Rs: five hundred seventy seven and paise forty only	9,815.80	
17	a	Providing and fixing factory made UPVC door frame made of UPVC extruded section of size 48 x 40 mm ( tolerance $\pm 1$ mm ) with wall thickness 2.0mm $\pm$ 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 $\pm$ 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.	58.00	One Rmt	141.00	Rs: one hundred forty one only	8,178.00

SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount	
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b	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 ± 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 ± 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 ± 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 ± 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.	20.00	One Sqm	2190.50	Rs: two thousand one hundred ninety and paise fifty only	43,810.00	
18	Supplying and fixing weldmesh door partly panelled and partly weldmesh double leaf shutters 30 mm thick using medium Indian teakwood and weldmesh of size 75 x 25 mm, 10 x 8 guage including supplying and fixing of M.S. fixtures, fittings and furniture of superior quality etc., complete as directed by the Engineer-in-charge including removal and disposal, upto 2 KM lead, of existing shutter.	2.76	One sqm	1628.00	Rs: one thousand six hundred twenty eight only	4,493.28	
19	a	Supplying and fixing of seasoned medium Indian teakwood cupboard Frame reapers of size: 75 x 25 mm on the wall surface by providing wooden pegs and fixing with MS Screw etc. complete including dismantling and disposal, upto 2 KM lead of existing Cupboard frame as directed by the Engineer-in-charge.	65.00	One Rmt	58.50	Rs: fifty eight and paise fifty only	3,802.50

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SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount	
				Figures	Words		
	b	Supplying and fixing in position medium Indian teakwood cupboard shutters having frame of size 75 x 25 mm scantling and fixing 3 mm thick plywood sheets on both sides including cost of MS hinges, Nickle coated latches and oxidised aluminium fixtures and furniture of approved quality etc., complete including dismantling and disposal upto 2 KM lead of existing Shutter as directed by the Engineer-in-charge.	23.00	One Sqm	1074.86	Rs: one thousand seventy four and paise eighty six only	24,721.78
20	a	Supply & Fixing well seasoned medium Indian teak wood work in frames of doors / Windows / clearstory windows and other frames, wrought framed and fixed in position etc complete all as directed by Engineer-in-charge. (This includes dismantling the existing frames, brick work, PCC etc and making good to a neat finish etc complete including disposal of debries, at 2 KM lead.)	0.25	One Cum	52090.00	Rs: fifty two thousand ninety only	13,022.50
	b	Supply & Fixing well seasoned medium Indian teak wood Window / Ventilator Frames, made out of scantling of size of 75x75 mm including cost and fixing of MS Hold fasts, 16 mm dia MS rounds spaced at the not more than 10.5 cm centre to centre, cost of all materials etc complete as directed by the Engineer-in-charge. (This includes dismantling the existing frames, brick work, PCC etc and making good to a neat finish etc complete including disposal of debries, at 2 KM lead.)	0.25	One Cum	52090.00	Rs: fifty two thousand ninety only	13,022.50
21	a	Supply & Fixing well seasoned medium Indian teak wood Window Shutters 30mm thick partly panelled and partly glazed with 3 mm thick glass of approved quality including cost and fixing of MS fixtures, fittings and furniture of superior quality etc as directed by the Engineer-in-charge including removal and disposal, upto 2 KM lead, of existing shutter.	2.16	One Sqm	1769.00	Rs: one thousand seven hundred sixty nine only	3,821.04

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SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount	
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	b	Supply & Fixing well seasoned medium Indian teak wood Ventilator Shutters 30mm thick fully glazed top / side hung type, glazing with 3 mm thick glass of approved quality including cost and fixing of MS fixtures, fittings and furniture of superior quality etc all as directed by the Engineer-in-charge including removal and disposal, upto 2 KM lead, of existing shutter.	1.00	One Sqm	1650.00	Rs: one thousand six hundred fifty only	1,650.00
22		Supplying and fixing of M.S. flymesh of an approved quality to the existing door and window shutters with necessary wooden beeding wherever necessary, including removing and disposing upto 2 KM lead the existing flymesh, cost of all materials etc., complete.	10.00	One Sqm	370.00	Rs: three hundred seventy only	3,700.00
23		Supplying and fixing of ornamental MS Powder Coated Curtain Rods with End Brackets of approved dia. including Rings and related fittings of Marvel Make as selected by the Engineer-in-charge including removing of existing spoiled pelmets etc., complete as all directed by the Engineer-in-charge.	67.00	One Rmt	187.80	Rs: one hundred eighty seven and paise eighty only	12,582.60
24		Supplying and fixing of PVC netlon mesh of approved colour to the existing window shutters with male and female posting arrangements and removing of existing old flymesh etc. complete as directed by the Engineer-in-charge.	40.00	One Sqm	240.00	Rs: two hundred forty only	9,600.00
25		Supplying and fixing 3mm thick plain glass of required sizes to Window / Ventilator Shutters including providing medium teak wood beeding, cost of all materials etc complete including removing and disposal, upto 2 KM lead, of existing glass pane as directed by the Engineer-in-charge.	2.00	One Sqm	429.00	Rs: four hundred twenty nine only	858.00
		<b>PART-B- WATER SUPPLY AND SANITARY FITTINGS</b>					

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SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount	
				Figures	Words		
26	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.	20.00	Each	200.00	Rs: two hundred only	4,000.00	
27	a	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.	4.00	Each	2304.65	Rs: two thousand three hundred four and paise sixty five only	9,218.60
	b	Providing and fixing white vitreous china pedestal type water closet ( European type W.C pan) with ISI white solid 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.	4.00	Each	2152.50	Rs: two thousand one hundred fifty two and paise fifty only	8,610.00
28	Supply and Fixing Stainless Steel Sink with drain board size 460 x 915 x 178 mm of Superior quantity with CI brackets 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 pipes 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 etc complete all as directed by Engineer-in-charge.	4.00	Each	3482.90	Rs: three thousand four hundred eighty two and paise ninety only	13,931.60	

SL.No	Description of Item	Qty.	Unit	Rate per unit in		Amount	
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29	Supplying and fixing coloured porcelain wash hand basin with pedestal of approved make, shape and colour class I quality of size 550 x 400 mm (22" x 16") 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.	4.00	Each	1750.80	Rs: one thousand seven hundred fifty and paise eighty only	7,003.20	
30	Supply and fixing of superior quality mirror of standard make with fibre glass reinforced plastic frame, plastic sheet back and necessary rubber channel of size 453 x 357 mm. The glass shall be of minimum 4 mm thick belgium processed and copper back etc complete.	4.00	Each	465.10	Rs: four hundred sixty five and paise ten only	1,860.40	
31	Dismantling the existing RCC Tank / Sintex Tank and disposing, upto 2KM lead, and Supply & Fixing of 1000 Lits. Capacity PVC Cylindrical double layered Water Tank Sintex make with all accessories (25mm Ball Cock 1 No., 25 mm Tank Nipples - 3 with Check Nuts, Washers etc.) etc. including labour charges complete as directed by the Engineer-in-charge.	2.00	Each	5250.00	Rs: five thousand two hundred fifty only	10,500.00	
32	a	Supplying and fixing of GI pipes (Class-A) 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 25 mm dia (1") dia.	70.00	One Rmt	179.65	Rs: one hundred seventy nine and paise sixty five only	12,575.50
	b	Supplying and fixing of GI pipes (Class-A) 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.	80.00	One Rmt	133.85	Rs: one hundred thirty three and paise eighty five only	10,708.00

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	c	Supplying and fixing of GI pipes (Class-A) 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.	60.00	One Rmt	105.85	Rs: one hundred five and paise eighty five only	6,351.00
33		Dismantling and replacing with new ones of approved make including cost of all materials etc complete.					
	a	CP angular stop cock 15 mm.	8	Each	191.70	Rs: one hundred ninety one and paise seventy only	1,533.60
	b	PVC long bend (1 1/4)"	8	Each	30.00	Rs: thirty only	240.00
	c	CP longbody bibcock (SEIKO DELUXE HD make)	12	Each	315.80	Rs: three hundred fifteen and paise eighty only	3,789.60
	d	CP shortbody bibcock (SEIKO DELUXE HD make)	4	Each	313.10	Rs: three hundred thirteen and paise ten only	1,252.40
	e	PTMT Tap	8	Each	120.85	Rs: one hundred twenty and paise eighty five only	966.80
	f	PVC Shower dia. 15mm	8	Each	101.95	Rs: one hundred one and paise ninety five only	815.60
	g	G.M.Peet Valves 1"	2	Each	482.00	Rs: four hundred eighty two only	964.00
	h	G.M.Peet Valves 3/4"	2	Each	327.00	Rs: three hundred twenty seven only	654.00
	i	PVC Coupler 4" dia.	2	Each	101.65	Rs: one hundred one and paise sixty five only	203.30

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j	PVC Coupler 3" dia.	4	Each	81.40	Rs: eighty one and paise forty only	325.60
k	Supply and fixing of "Jaquar (Allied)" make Health Faucet with 8 mm dia, 1 m long flexible tube and wall hook, Cat No. 573 etc. complete all as directed by Engineer-in-charge.	4	Each	1325.00	Rs: one thousand three hundred twenty five only	5,300.00
l	Supply & Fixing of PVC / Acrylic Towel Rod 2'	8	Each	294.65	Rs: two hundred ninety four and paise sixty five only	2,357.20
m	Supply & Fixing WHB PVC / Acrylic Towel Ring.	4	Each	149.00	Rs: one hundred forty nine only	596.00
n	Supply & Fixing PVC / Acrylic Soap tray	12	Each	133.30	Rs: one hundred thirty three and paise thirty only	1,599.60
<b>PART-C-PAINTING WORKS</b>						
34	Scrapping the existing paint surface, repairing the wall surface by applying wall putty wherever required and supply and application of Two coats of Altek Superfine, One coat of Altek water based cement primer & Two coats of Altek Flora (plastic Emulsion paint) etc.complete including cost of all materials all as directed by engineer-in-charge	1099.84	One Sqm	97.00	Rs: ninety seven only	1,06,684.48
35	Applying two coats of synthetic enamel paint of approved brand and shade to doors & windows including scrapping cost of all materials, etc complete all as directed by Engineer-in-charge.	331.72	One Sqm	35.35	Rs: thirty five and paise thirty five only	11,726.30
<b>PART-D...WATER PROOFING TREATMENT</b>						

Signature of contractor

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36	<i>(Ardex Endura make or approved equivalent. The work to be got done through approved applicator of the manufacturer. Manufacturer to provide guarantee for Five Years - Scope includes preparation of the surface by scrapping, removal of existing water proofing treatment etc.)</i>					
36.1	<b>WALL TREATMENT:</b> Crack and construction joint treatment: Providing and treating crack and construction joints by making saw cut groove of 6mm x 6 mm and 12mm x 12 mm respectively and filling it with WPM 256 modified mortar etc complete.					
36.2	<b>Moisture barrier coat:</b> Providing and applying epoxy polyamide moisture barrier coat with WPM 300 in 1 coat at a coverage of 3.5 sqm per litre to all the surfaces where facade membrane to be applied.					
36.3	<b>Façade membrane:</b> Providing and applying 2 coats of WPM 310 highly flexible, single part anti fungus, acrylic external wall coating with waterproofing properties at a coverage of 25 sqm per 15 lit kit etc complete as per the ARDEX ENDURA technical specifications and as directed by Engineer-in-charge.	557.00	One Sqm	641.00	Rs: six hundred forty one only	3,57,037.00
	<b>ROOF TREATMENT</b>					

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37	37.1 <u>Bore packing (Rain Spouts)</u> : Providing and treating the bore holes by filling epoxy modified mortar admixed with WPM 256 around the pipe gaps, including reinforcing 300 mm around the pipe with polyester non woven glass filament reinforced cloth sandwiched between 2 coats of WPM 350 etc complete as per the technical specification. ( <b>For rain water pipes</b> ).	4.00	Each	495.11	Rs : four hundred ninety five and paise eleven only	1,980.44
	37.2 <u>Cove installation</u> : Providing and installing 100 mm cove consisting of cement mortar in CM 1:3 admixed with WPM 405 at dosage of 1 lit per bag of cement, in all the corners of slab and parapet etc complete as per the technical specification. ( <b>For Gultas</b> ).	50.00	One Rmt	119.47	Rs: one hundred nineteen and paise forty seven only	5,973.50
	37.3 <u>Moisture barrier coat</u> : Providing and applying epoxy polyamide moisture barrier coat with WPM 300 in 1 coat at a coverage of 3.5 sqm per litre to all the surfaces where facade membrane to be applied.					
	<u>Water proofing Membrane</u> : Providing and installing a premium waterproofing using ARDEX WPM 350 highly flexible acrylic modified fibre reinforced membrane in two coats, sandwiching ARDEX DECKWEB between the coats. Membrane shall confirm to: Specific gravity 1.3, Water absorption AS A121 App K5%, Elongation at break 208%. tensile strength 2.32 MPa.	208.00	One Sqm	589.30	Rs: five hundred eighty nine and paise thirty only	1,22,574.40
38	Plastering with CM 1:4, 20 mm thick including cost of all materials etc complete as directed by the Engineer-in-charge.	20.00	One Sqm	118.25	Rs: one hundred eighteen and paise twenty five only	2,365.00
39	Providing & laying in position cement concrete of grade 1:2:4 (1cement : 2 coarse sand : 4 graded granite stone aggregate of 20 mm nominal size) including curing , cost of all materials as per direction of Engineer-in-charge.	1.00	One Cum	3257.45	Rs: three thousand two hundred fifty seven and paise forty five only	3,257.45

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	<b>PART-E ( FENCING, TREE CUTTING ETC.)</b>					
40	Supply and fixing of G.I.Chain Link Mesh of 50 x 50 mm mesh and 2.5 mm dia wire including cost of binding wire, labour charges etc., complete all as directed by Engineer-in-charge.	190.00	One Sqm	135.00	Rs: one hundred thirty five only	25,650.00
41	Vibrated RCC 1:2:4 nominal mix using 20 mm down graded granite metal ( 60% of 20 mm, 30% of 12mm to 10 mm, 10% of 6 mm to 4.75 mm) for Fencing Poles which shall be of size 0.10 M x 0.10M at Top and 0.15 x 0.15 M at bottom, length varying from 1.80M to 2.40 M including casting, curing, steel shuttering etc complete except cost of steel reinforcement, its fabrication and placing.	2.50	One Cum	3359.60	Rs: three thousand three hundred fifty nine and paise sixty only	8,399.00
42	Providing mild steel / torsteel reinforcement including cutting, bending and binding of rods, tying grills, conveyance and placement of reinforcement in position etc complete including cost of steel and binding wire and all handling charges.	0.42	One MT	42700.00	Rs: forty two thousand seven hundred only	17,934.00
43	Cutting of Tree branches falling over buildings upto 7 M height and transporting and stacking within a lead of 3 KMs etc complete all as directed by Engineer-in-charge.					
	a Upto 10 to 20 cm girth	4.00	Each	34.20	Rs: thirty four and paise twenty only	136.80
	b Above 20 cm girth	4.00	Each	56.60	Rs: fifty six and paise sixty only	226.40

Signature of contractor

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				Figures	Words		
44	Felling Trees of girth (measured at height of 1 M above the ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material at BHEL Nursery stock yard including transportation and staking, disposal of unusable material, upto 2 KM lead, etc complete all as directed by Engineer-in-charge.						
	a	Beyond 30 cm girth upto and including 60 cm girth.	1.00	Each	81.70	Rs: eighty one and paise seventy only	81.70
	b	Beyond 60 cm girth upto and including 120 cm girth.	1.00	Each	359.80	Rs: three hundred fifty nine and paise eighty only	359.80
	c	Beyond 120 cm girth upto and including 240 cm girth.	1.00	Each	1658.85	Rs: one thousand six hundred fifty eight and paise eighty five only	1,658.85
45	Arresting the growth of trees along the walls of the buildings in Township by applying gylcil with ammonia of required quantity till the tree is dried and removing the dried tree along with roots and disposing off, upto 2 KM lead etc complete as directed by Engineer-in-charge.	5.00	Each	200.00	Rs: two hundred only	1,000.00	
			<b>Rs: fifteen lakhs twenty thousand two hundred ninety nine and paise thirty only</b>			<b>1520299.30</b>	

Signature of contractor

Issuing Officer

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

Tender%	In words	Figures
Excess		
Less		
on estimated rate		

#### 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		<b>Service tax</b> 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 <b>6 months</b> . The security deposit will be released after satisfactory completion of the maintenance period.

Signature of contractor

Issuing Officer