

BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM, HYDERABAD-32
Township Administration Department

SCHEDULE- A

Tender Notice No:
HY/TA/OT-25/2022-23, Dt.02.02.2023

PRICE BID

Name of work:- Regular Rate contract for carrying out Routine Annual Civil Maintenance works like Masonry, Painting, Carpentry, Sanitary, Plumbing, Roof sheeting, supplying of materials and machineries etc. works in Township

SL.N O	Description	Qty	Unit	Rate	Amount
	Misc civil works				
1	Earth work in excavation all kinds of soils by mechanical means (Hydraulic excavation) / manual means over areas exceeding 30 cm in depth 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.	50	One Cum	189.225	9461.25
2	Ordinary rock	2	cum	336.1125	672.225
3	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 1.5,.	100	cum	164.7375	16473.75
4	Conveyance of excavated soil up to a lead of 2 Kms, including loading, unloading and spreading etc. complete as directed by Engineer- in- charge.	100	Cu.M	112.0725	11207.25
5	Conveyance of building debris up to a lead of 2 Kms, including loading, unloading and spreading etc. complete as directed by Engineer- in- charge.	250	Cu.M	89.655	22413.75
6	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.			0	0
a	Dismantling reinforced cement concrete / plain cement concrete and disposing of debris upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	1	Cu.m	1990.68	1990.68
b	plastering in walls	3000	One Sqm	29.25	87750
c	Plastering in ceilings	3000	One Sqm	29.25	87750
d	Dismantling brick masonry walls for all heights, removing and clearing the debris and carting away upto to lead of 2 KM including loading, unloading and spreading segregating useful materials as directed by Engineer-in-charge including the cost of all labour scaffolding etc., complete.	1	Cu.m	1192.08	1192.08
e	Taking out doors, windows and clerestory window shutters (steel or wood)including stacking within 50 metres lead: Of area 3 sq. metres and below	1	each	79.9125	79.9125
fdo... Of area beyond 3 sq. metres	1	each	105.525	105.525

g	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking upto 2km lead	1	Kg	3.1125	3.1125
h	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	1	Sqm	41.1375	41.1375
i	Demolishing stone rubble masonry manually / by means including stacking of serviceable material and disposing of unserviceable materials upto a lead of 2.00 KM as per directions of Engineer-in-charge. - in cement mortar	1.00	Cu.M	1405.38	1405.38
j	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50mtr lead	1	sqm	31.5	31.5
k	Dismantling G.I pipes (external work) including excavation and refilling trenches after taking out the pipes manually by mechanical means including stacking of pipes within 50mtr lead as per direction of engineer in charge			0	0
l	15mm to 40mm nominal bore	120	mtr	81.1125	9733.5
m	Dismantling aluminium / Gypsum partitions doors windows fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50mtr lead as directed by engineer in charge	1	sqm	31.5	31.5
7	Plastering in cement mortar 1:6, 20 mm thick including curing, cost of all materials etc, complete all as directed by Engineer-in-charge	2000	One Sqm	259.2375	518475
8	Plastering in cement mortar 1:6, 12 mm thick for inside wall including curing, cost of all materials etc, complete all as directed by Engineer-in-charge	2000	One Sqm	190.6875	381375
9	Plastering in cement mortar 1:3, 6 mm thick including curing, cost of all materials etc, complete all as directed by Engineer-in-charge.	2000	One Sqm	170.5125	341025
10	Plastering in cement mortar 1:4, 12 mm thick including curing, cost of all materials etc, complete all as directed by Engineer-in-charge.	2000	One Sqm	207.1125	414225
11	Plastering in cement mortar 1:4, 20 mm thick including curing, cost of all materials etc, complete all as directed by Engineer-in-charge.	2000	One Sqm	284.775	569550
12	Plastering in cement mortar 1:3, 12 mm thick including curing, cost of all materials etc, complete all as directed by Engineer-in-charge.	2000	One Sqm	255.6375	511275
13	Providing impervious coat in CM 1:4, 20 mm thick using approved water proofing compound(SIKA/Doctor Fixit/Foss rock) at one Kg/bag of cement including arranging proper slopes, for easy flow of rain water, curing etc complete.	100	One Sqm	273.9375	27393.75

14	Providing and laying in position plain cement concrete of specified grade, consolidation excluding the cost of centering and shuttering - all work up to plinth level with 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size)	5	Cum	4342.2	21711
15	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)	5	Cum	5788.6875	28943.4375
16	Providing and laying in position plain cement concrete of specified grade, consolidation by vibration excluding the cost of centering and shuttering - all work up to plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size)	5	Cum	5091.45	25457.25
17	Centering and shuttering including strutting, propping etc. and removal of form work for : <u>Foundations, footings, bases for columns</u>	5	Sqm	213.6375	1068.1875
18	Reinforcement for R.C.C. work including straightening , cutting, bending, placing in position and binding all complete by cold twisted bars (BHEL will issue Tor Steel at their stores on free of cost).	4000	Kg	62.625	250500
19	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge. 25 mm average thickness	200	Sqm	72.375	14475
20	Providing and fixing 1st 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 12 mm 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	80.00	Sq.m	772.725	61818
21	Providing and laying Ceramic glazed floor anti skid tiles of size 300x300 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), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	80.00	Sqm	695.175	55614

22 a	Vitrified flooring : Supply and laying of vitrified tiles/ nano technology of brighter shades and required design of premium quality (1st quality), in required texture and colour for floors/skirting/cladding using vitrified tiles of size 600 X 600 mm(± 5 mm), inclusive of cost of cutting, chamfering of tiles to required size, with base of Conmax C - 500 tile adhesive for fixing tiles on existing mosaic/cement flooring , jointing the tiles with colour tint etc. complete as directed by Engineer-in-charge. The rate quoted shall include cost of all materials, labour, adhesives, colour tint material, leads and lifts etc. complete. Amount will be paid on the basis of measurement of the area of finished work only. It also includes surface preparation of existing ceramic floor giving necessary slopes, cleaning joints and grouting joints with pigmented additives to match shade of the tile, making pockets for electrical, communication, network cables etc. complete as directed by Engineer-in-charge. Amount will be paid on the basis of measurement for finished work only.	1.00	Sq.m	1057.65	1057.65
22 bdo....Fixing of above specified tiles.	1.00	Sq.m	440.4	440.4
23	Brick work with FPS bricks of Ground moulded in superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:6. All items supply are in contractor scope only	1.00	Cu.M	5692.8375	5692.8375
24 a	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 primer as per IS specifications and all charges for handling, leading and loading at the fabrication yard. (The raw structural steel sections, electrodes, gasses only will be issued by BHEL on FREE of cost at their stores).	250.00	Kg	76.3125	19078.125
b	Erection of Steel work out lined in item No.1 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. (upto 15.00m)	250.00	Kg	44.2575	11064.375

25 a	Hire charges for access scaffolding-upto 3.66m using Casuarina Ballies,banboos,wooden reapers,Runners,wood posts,wall plates etc. for plastering walls-1Sqm(1st Floor)	1000.00	Sq.m	10.15	10148
b	...do....(2nd floor)	1000.00	Sq.m	14.01	14006.6
26	Coursed rubble masonry (second sort) with hard stone in foundation & plinth Cement mortar 1:6 (1 cement : 6 coarse sand)	50.00	CUM	5103.9375	255196.875
27	Labour charges for laying of APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3mm thick water proofing membrane. Application Methodology is as follows:• Cleaning of existing surface.• Apply a coat of Shalikote T-30 Primer @ 0.300 Grms / Sqmtr and allow it to dry.• Apply a coat of Bitumen / tar 85/25 is 702 @ 1.2 Kg per Sqmt • On the primed surface start laying of membrane at lowest point of the slope roof and progress to the higher point Unroll the membrane half-way, align the side laps and fix super thermo lay 3 mm (Plain) APP membrane by using a LPG torch and applying uniform pressure with a roller / wet cloth to ensure to remove entrapped air if any.• Flame should be moved in shape of 'L' applying about 75% of the heat to the roll and 25% to the substrate including the lap area of previously installed membrane. The flame should be moved across the width and upto the lap edge while membrane is slowly unroll and adhered to the under lying surface.• Heat both layers of membrane at the overlap and used round tipped	500.00	Sqm	172.5	86250
28	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately. All materials supply are in contractor scope only	100.00	Sq.m	392.2875	39228.75
INJECTION GROUTING					0

1	Chipping of loose and spalling concrete of bottom slab / Stair case etc.; cleaning of reinforcement carrying out sand blasting, application of anti corrosive zinc rich epoxy primer to the exposed reinforcement (incl. Cost of tools, Material, Labour etc. complete as directed by engineer -in-charge.	1	Sq.m	297.93	297.92994
2	Drilling of 14mm dia hole to a depth of 50 mm and fixing of shear connectors of 8mm rebar using polyester resin grout (Sysgrout 657 or its equivalent) incl. cost of all materials, labour etc,complete as directed by Engineer-in-charge	1	Nos.	58.60	58.6047
3	Supply and application of one coat protective epoxy coating on shotcreted surface using sika Icosit K-25 or its equivalent including cost of material labour etc. complete as directed by Engineer-in-charge. (Qty Same as Item 1)	1	Sq.m	278.77	278.77146
4	Carrying out 50-60 mm thick shotcreting using a mix proportion of 1:2:2 (Cement:sand:6mm down aggregate) added with polypropulene fibers at a dosage rate of 125 gms / bag of cement (incl. cost of material, labour etc. complete as dirtcted by Engineer -in-charge	1	Sq.m	858.76	858.7568
5	Supply, Fabrication and fixing of 50mm*50mm*5mm Geo grid tied to the shear connectors / exposed reinforcement incl. cost of material, labour etc. complete as directed by Engineer-in-charge.	1	Sq.m	209.21	209.21164
PART-C-PAINTING WORKS					0
1-a	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	650	One Sqm	10.65	6922.5
b	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	250	One Sqm	13.6875	3421.875
2	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	250	One Sqm	147.525	36881.25
3	White washing with lime to give an even shade : Old work (one or more coats)	700	One Sqm	12.5625	8793.75
4	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : Old work (one or more coats) .Paint brands-Burger/Asian Paints/Nerolac etc.	1000	One Sqm	65.3625	65362.5
5	Supply & Painting with synthetic enamel paint for structural steel ,wall,doors>window wherever required of approved brand and manufacture of required colour to give an even shade by scrapping the old surface. One or more coats on old work .Paint brands-Burger/Asian Paints/Nerolac etc.	1000	One Sqm	59.9625	59962.5

6	Supply & Finishing walls with Acrylic Smooth exterior paint of required shade :Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface.Paint brands-Burger/Asian Paints/Nerolac etc	1000	One Sqm	120.8625	120862.5
7	Supplying and Finishing walls with water proofing cement paint of required shade : (Two or more coats applied @ 3.84 kg/10 sqm).Paint brands-Burger/Asian Paints/Nerolac etc.	1000	Sq.m	68.4375	68437.5
8	Supplying of Varnishing with flatting varnish of approved brand and manufacture one or more coats on old work.	40	One Sq.m	57.4875	2299.5
9	Supply & Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work over one coat of primer.. Paint brands-Burger/Asian Paints/Nerolac etc.	50	One Sq.m	96.4875	4824.375
10	Supply & Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including priming coat with water thinnable cement primer.Paint brands-Burger/Asian Paints/Nerolac etc.	50	One Sq.m	115.0875	5754.375
11	Supply & Painting with synthetic enamel paint structural steel ,wall,doors>window wherever required of approved brand and manufacture to give an even shade: Two or more coats on new work. Paint brands-Burger/Asian Paints/Nerolac etc.	50	One Sq.m	91.1625	4558.125
	PART-E (FENCING, TREE CUTTING ETC.)				0
1	Cutting of Tree branches falling over buildings at more than 6 M height and transporting and stacking within a lead of 3 KMs etc complete all as directed by <u>Engineer-in-charge.</u>				0
a	Upto 10 to 20 cm girth	1	each	40.356	40.356
b	Above 20 cm girth	1	each	66.788	66.788
2	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 <u>Engineer-in-charge</u>	1	each	236	236
3	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15cm deep and disposal of rubbish lead upto 50m and lift upto 1.5m	1	Sqm	18.2625	18.2625
4	Clearing jungle including uproofing of rank vegetation, brush wood trees and sapling of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50m outside the periphery of thse area cleared.	1	Sqm	9.4125	9.4125
5	Clearing grass and removal of the rubbish up to a distance of 50m outside the periphery of the area cleared.	1	Sqm	4.8	4.8

6	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			0	0
a	Beyond 30cm girth upto and including 60cm girth	1	each	285.45	285.45
b	Beyond 60cm girth upto and including 120cm girth	1	each	1270.8	1270.8
c	Beyond 120cm girth upto and including 240cm girth	1	each	5895.4125	5895.4125
d	Above 240cm girth	1	each	11812.4625	11812.4625
7	Providng lawn turfing with carpet grass of approved variety and levelling the surfaces after turfing including th watering the area for 30 days etc complete as directed by Engg In charge.	1	Sqm	129.77404	129.77404
	WATER SUPPLY ITEMS				0
1	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :				0
A	15 mm dia nominal bore	36	mtr	213.675	7692.3
B	20 mm dia nominal bore	2	mtr	258.075	516.15
2	Providing and fixing GI pipe complete with GI fitting including trenching and refilling etc. External work				0
A	15mm nominal bore	50	mtr	183.1125	9155.625
B	20mm nominal bore	50	mtr	212.85	10642.5
C	25mm nominal bore	50	mtr	273.4125	13670.625
D	32mm nominal bore	1	mtr	318.525	318.525
E	40mm nominal bore	7	mtr	362.3625	2536.5375
F	50mm nominal bore	7	mtr	423.9375	2967.5625
G	65mm nominal bore	1	mtr	537	537
H	80mm nominal bore	7	mtr	649.8	4548.6
3	Making connection of GI distribution branch with GI main of following sizes by providing and fixing tee including cutting and threading the pipe ect complete			0	0
A	25 to 40mm nominal bore	2	each	505.0875	1010.175
B	50 to 80mm nominal bore	1	each	1074.5625	1074.5625
4	Providing and fixing brass bib cock of approved quality:			0	0
A	15 mmmnominal bore	1	each	226.9125	226.9125
B	20 mm nominal bore	1	each	244.8375	244.8375
5	Providing and fixing brass stop cock of approved quality :			0	0
A	15 mmmnominal bore	5	each	226.9125	1134.5625
B	20 mm nominal bore	1	each	244.8375	244.8375
6	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)			0	0
A	25 mm nominal bore	7	each	372.8625	2610.0375
7	Providingand fixing ball vaive (brass) of approved quality ,High or low pressure ,with plastic floats complete :			0	0
A	15 mmmnominal bore	1	each	254.025	254.025
B	20 mm nominal bore	1	each	289.8	289.8
C	25 mm nominal bore	1	each	295.5	295.5

8	Providing and fixing gun metal non return of approved quality (screwed end)			0	0
	25 mm nominal bore			0	0
A	Horizontal	1	each	358.275	358.275
B	vertical	1	each	378.3375	378.3375
9	Supplying pig lead at site of work to spun iron or CI pipes and specials including testing of joints	1	quintal	8203.09	8203.08742
10	Providing and fixing CP brass stop cock (concealed) of standard design and of approved make conforming to IS 8931				0
	15 mm nominal bore	4	each	161.68	646.71552
11	Providing and fixing CP brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931a) 15mm nominal bore				0
	15mm nominal bore	20	each	399	7980
12	Providing and fixing PTMT bib cock of approved quality and colour.Brands-Poly tuff/Jindal				0
	15mm nominal bore, 86mm long weighing not less than 88gms	25	each	87.4125	2185.3125
13	Providing and fixing PTMT push cock of approved quality and colour.				0
	15mm nominal bore, 98mm long weighing not less than 75gms	1	each	93.40	93.40408
14	Providing and fixing PTMT soap Dish holder having length of 138mm breadth 102mm height of 75mm with concealed fitting arrangement. Weighing not less than 106gms	1	each	118.88	118.88382
15	Labour charges for erection PVC tanks-1000Lts including transportation from Dept stores to work spot (including all necessary fittings and specials like ball cock, nipples, etc).	5	Each	608.52	3042.5769
SANITARY WORKS					0
1	Providing and fixing water closet squatting pan(indian type WC pan) with 100mm sand cast iron P or S trap 10 ltr low level white PVC flushing cistern with manually controlled device (handle level) conforming to IS 7231 with all fitting and fixtures complete including cutting and making good the walls and floors wherever required				0
	White vitreous china orissa pattern WC pan of size 580x440mm with integral type four rests.Make-Parryware/Hindware/Cera.	25	each	4066.125	101653.125
2	Providing and fixing white vitreous china pedestal type water closet (european type WC pan) with seat and lid 10ltr low level white PVC flushing cistern with manually controlled device (handle level) conforming to IS 7231 with all fittings and fixtures complete including cutting and making good the wall and floors wherever required Parryware/Hindware/Cera.				0
a	WC pan with ISI marked white solid plastic seat and lid	5	each	3945.7125	19728.5625
b	WC pan with ISI marked black solid plastic seat and lid	5	each	3855.4125	19277.0625

3	Providing and fixing white vitreous china pedestal type water closet (european type)with seat and lid 10 ltr low level white vitreous china flushing cistern and CP flush bend with fitting and CI brackets 40mm flush bend overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal desgin complete including painting of fitting and brackets cutting and making good the walls and floors wherever required.Make-Parryware/Hindware/Cera.				0
a	WC pan with ISI marked white solid plastic seat and lid	15	each	5013.75	75206.25
b	WC pan with ISI marked black solid plastic seat and lid	1	each	4923.45	4923.45
4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 430x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass unios and GI clamps complete including painting of fitting and brackets cutting and making good the walls and floors wherever required.Make-Parryware/Hindware/Cera.				0
a	One urinal basin with 5 ltr white PVC automatic flushing cistern	1	each	3736.6875	3736.6875
5	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350mm with white PVC automatic flushing cistern with fitting standard size CP brass flush pipe spreaders with unions and clamps (all in CP brass) with waste fitting as per IS 2556 CI trap with outlet grating and other couplings in CP brass including painting of fitting and cutting and making good the walls and floors wherever required.Make-Parryware/Hindware/Cera.				0
	Single half stall urinal with 5 ltr PVC automatic flushing cistern	2	each	7020.45	14040.9
6	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudianl flushing pipe white PVC automatic flushing cistern with fitting standard size GI flush pipe for back and front flush with standard spreader pipes with fitting GI clamps and CP brass coupling complete including painting of fittinng and cutting and making good the walls and floors etc. wherever required.Make-Parryware/Hindware/Cera.				0
	Single squatting plate with 5 ltr PVC automatic flushing cistern	1	each	5430.4125	5430.4125
7	Providing and fixing wash basin 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.Make-Parryware/Hindware/Cera.				0
a	White vitreous china flat back wash basin size 550x400mm with single 15mm CP brass pillar tap.Make-Parryware/Hindware/Cera.	2	each	1882.8375	3765.675

8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.Make-Parryware/Hindware/Cera.	1	each	1065.1125	1065.1125
9	Dismantling, Providing and fixing white vitreous china water closet squatting pan (indian type).Make-Parryware/Hindware/Cera.	1	each	1155.7875	1155.7875
10	Providing and fixing white vitreous china pedestal type (european type/ wash down type) water closet pan .Make-Parryware/Hindware/Cera.	1	each	1707.7125	1707.7125
11	Providing and fixing PVC low level flushing cistern with manually controlled device (handle level) conforming to IS 7231 with all fittings and fixtures complete.Parryware/Hindware/Cera			0	0
	10 Ltr capacity white	50	each	749.9625	37498.125
12	Providing and fixing solid plastic seat with lid for pedestal type WC pan complete.			0	0
a	white solid plastic seat with lid	10	each	428.25	4282.5
b	black solid plastic seat with lid	1	each	337.95	337.95
13	Providing and fixing GI inlet connection for flush pipe connecting with WC pan.	3	each	43.0575	129.1725
14	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively.	1	each	974.8125	974.8125
15	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.Parryware/Hindware/Cera	1	each	2405.625	2405.625
16	Providing and fixing PVC waste pipe for sink or wash basin including PVC waste fitting complete			0	0
	semi rigid pipe			0	0
a	32mm dia	36	each	65.775	2367.9
17	Providing and fixing toilet paper holder			0	0
a	CP brass	1	each	437.8125	437.8125
b	Vitreous china	1	each	319.6125	319.6125
18	Providing and fixing vitreous china dual purpose closet suitable for use as squatting pan or european type water closet (angle indian WC pan) with seat lid with CP brass hinges and rubbers buffers 10ltr low level flushing cistern with fitting and brackets 40mm flush bend 20mm over flow pipe with specials of standard make and mosquito proof coupling of approved municippal design complete, including painting of fitting and brackets cutting and making good the walls and floors wherever required			0	0
	white vitreous china dual purpose WC pan with white solid plastic seat and lid with white vitreous china flushing cistern and CP flush bend	1	each	7517.925	7517.925
19	Dismantling, Providing and fixing PTMT waste coupling for wash basin and sink of approved quality and colour			0	0
a	waste coupling 31mm of 79mm length and 62mm breadth weighing not less than 45 grms	1	each	74.8125	74.8125

b	waste coupling 38mm of 83mm length and 77mm breadth weighing not less than 60grms	1	each	88.875	88.875
20	Dismantling, Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour			0	0
a	450mm long towel rail with total length of 495mm 78mm wide and effective height of 88mm weighing not less than 170grms	1	each	416.5125	416.5125
b	600mm long towel rail with total length of 645mm width 78mm and effective height of 88mm weighing not less than 190grms	1	each	446.625	446.625
21	Dismantling, Providing and fixing PTMT 15mm urinal spreader size 95x69x100mm with 1/2" BSP thread and shapes weighing not less than 60 grms	1	each	89.8125	89.8125
22	Dismantling, Providing and fixing PTMT urinal cock of approved quality and colour			0	0
	15mm nominal bore 80mm long 42mm high and 30mm wide with BSP female threads weighing not less than 48grm	1	each	123.0375	123.0375
23	Rectifying the dampness due to leaking joints of Nahany traps alkathin / lead pipe connections to W.C's joints in AC pipes embedded in flooring including chasing brick work / concrete and making good after repairs in cement mortar including cost of all materials, curing etc complete for all specials all as directed by Engineer-in-charge.(trap and PVC Pipe if replaced will be measured separately)	150	Each	199.02234	29853.351
24	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.(only Labour charges but items required for fixing like cement,sand etc should be supplied by agency)				0
a	Wash hand basins of size 22"x16" (without fittings)	14	Each	512.43742	7174.12388
b	Wash hand basins of size 18"x12" (without fittings).	1	Each	448.38112	448.38112
c	Indian water closet 630 mm / 580 mm	5	Each	544.45908	2722.2954
d	European Water closets complete all as directed by Engineer-in-charge.	15	Each	768.64964	11529.7446
e	Standing type white glazed flat back urinals.	2	Each	384.32482	768.64964
f	Porcelain 'P' trap of size 4"	45	Each	192.15592	8647.0164
g	Orissa Pan of approved make and size 580 x 440 mm	20	Each	640.53704	12810.7408
h	SWG gully traps 6"x6" or 4"x4" with CI frame and cover.	45	Each	138.44468	6230.0106
25	Dismantling and replacing with new ones of approved make including cost of all materials etc complete all as directed by Engineer-in-charge.			0	0
a	3/4" brass stop cock.	15	Each	263.64976	3954.7464
b	1/2" X 18" PVC pipe connections. (Heavy duty).	100	Each	50.1677	5016.77
c	PVC flexible pipe 32 mm dia.	120	Each	52.46516	6295.8192

d	3/4" polymer ball cock of ISI makes approved brand.	260	Each	216.32468	56244.4168
e	1/2" polymer ball cock of ISI makes approved brand.	24	Each	157.48634	3779.67216
f	E.W.C seat covers (solid) of any shade.	12	Each	342.89266	4114.71192
g	CP consealed stock cock 1/2" dia with internal brass threadings.	15	Each	294.21766	4413.2649
h	Hot and cold mixing vlave of SEIKO DELUX make.	1	Each	925.91532	925.91532
i	C.P. waste coupling 1 1/4" dia (32 mm).	114	Each	142.66318	16263.60252
j	C.P. Nahani trap jalise 5" dia.	192	Each	15.576	2990.592
k	Hot water connections.	4	Each	88.264	353.056
l	C.I. brackets.	50	Each	72.688	3634.4
m	1/2" C.I bib taps with brass internal, turning (Alto brand or equivalent).	2	Each	70.96166	141.92332
n	1/2" Polymet bib taps (PTMT material) make. poly tuf,jindal etc.	200	Each	133.25268	26650.536
o	PVC shower swing type for the 1/2" 3/4" pipe (Prayag make).	100	Each	129.8	12980
p	1/2" C.I. stop cock with brass internal turnings (Alto or equivalent brand).	1	Each	115.95034	115.95034
26	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.	1500	One Rmt	40.12118	60181.77
27	Supplying and fixing Telephonic shower including cost of all materials and fixtures and fittings etc complete all as directed by Engineer-in-charge.	1	Each	951.68062	951.68062
28	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 or equivalent quality 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.	400	Rmt	94.15692	37662.768
29	Dismantling of the existing AC /PVC Pipes (the pipes are to be returned to department as per instructions of the Engineer-in-charge) and Supply & Fixing Prince / Sudhakar make or equivalent approved quality PVC / SWR pipes (as per ISI standards) 4 kg / cm ² ... 110 mm dia etc complete all as directed by Engineer-in-charge.	500	Rmt	160.29002	80145.01
30	Dismantling of the existing specials and Supplying & Fixing Prince / Sudhakar make or equivalent approved quality (U.V. resistant UPVC) SWR pipe fittings (as per ISI standards) etc complete all as directed by Engineer-in-charge.			0	0
a	75 mm dia plain bend.	5	Each	73.986	369.93
b	75 mm dia plug bend.	5	Each	88.54956	442.7478
c	75 mm dia off-set.	5	Each	67.26236	336.3118
d	75 mm dia Single 'Y' with door.	5	Each	115.30134	576.5067
e	75 mm dia pipe clip.	5	Each	16.8091	84.0455
f	75 mm dia single tee with door.	5	Each	97.51874	487.5937
g	110 mm dia plain bend.	10	Each	76.86756	768.6756
h	110 mm dia plug bend.	10	Each	96.07796	960.7796
i	110 mm dia Single 'Y' with door.	5	Each	128.1126	640.563

j	110 mm dia Double 'Y' with door.	10	Each	160.13426	1601.3426
k	110 mm dia off-set.	5	Each	104.24238	521.2119
l	110 mm dia vent cowl.	10	Each	36.993	369.93
m	110 mm dia pipe clip.	5	Each	20.17092	100.8546
n	110 mm dia single tee with door.	1	Each	96.07796	96.07796
o	110 mm dia coupler.	1	Each	65.01682	65.01682
SUPPLY OF BUILDING MATERIALS					0
1	Supply and stacking of ordinary portland cement including all incidental charges etc complete as directed by Engineer-in-charge.	2	Tonne	3774.18	7548.36
2	Supply and stacking of 40 mm machine crushed granite metal including all incidental charges etc complete as directed by Engineer-in-charge.	2	cum	1312.3125	2624.625
3	Supply of 20 mm guage hard granite stone metal including cost and conveyance to site and stacking as directed by the Engineer-in-charge.	2	cum	1312.3125	2624.625
4	Supply of 12 mm guage hard granite stone metal including cost and conveyance and stacking as directed etc complete.	2	cum	1312.3125	2624.625
5	Supply of ground moulded number bricks of best quality including cost and conveyance to site and stacking neatly as directed by the Engineer-in-charge.	2	each	6.22568	12.45136
6	Supply of good quality course River Sand Bhodan / Karimnagar / Kurnool / Sirisilla quality including cost and conveyance to site and stacking neatly as directed by the Engineer-in-charge. Density of sand taken as 1900kg/cum.	2	cum	1012.5	2025
7	Supply of good quality Fine River Sand Bhodan / Karimnagar / Kurnool / Sirisilla quality including cost and conveyance to site and stacking neatly as directed by the Engineer-in-charge. Density of sand taken as 1900kg/cum.	2	cum	675	1350
8	Supply and spreading quarry stone dust on walking track, stadium etc, complete as directed by Engineer-in-charge.	3	cum	1483.875	4451.625
PROVIDING MACHINERY					0
1	Supply of JCB	15	Per Hour	655.43	9831.3765
2	Supply of Tractor with ripper / Trolley	15	Per Day	1310.85	19662.753
3	Supply of Tractor with hydraulic Lift with 4 USW	10	Per Day	2621.70	26217.004
4	Supply of water Tanker	10	Per Day	1638.56	16385.5626
5	Supply of Kambi Series/ Machine for de-silting or De-choking or Removal of silt	10	Per Day	16385.60	163856.0154
6	Supply of tractor with levelling blade & Plough equipment	15	Per Day	3408.21	51123.1578

7	Supply of road roller on hire basis for rolling the grounds / play fields / filled up soil / rolling by the side of roads etc complete all as directed by Engineer-in-charge hire charges include cost of services operating staff and supply of lubricating oil etc complete all as directed by Engineer-in-charge.	10	perday 8 hrs	2490.62	24906.1538
8	Engaging of hydra crane of 10 to 14 tonne capacity for lifting / loading /unloading/ stacking of heavy MS /wood Scrap. Tree trunks . Heavy machine equipments , MS fabrication structure lying all around shop floors inside factory area to specified areas, as Directed by engineer-in-charge. It includes cost of fuel, driver etc. complete , it should work minimum 10hours pe day . It is assessed that one hydra cranes per day are required for carrying out the above Job.	10	perday	3441.54	34415.408
9	Engaging chain mounted Proclaim , as per the direction of Engineer in charge including transportation charges, operation charges, fuel charges, extra labour, cleaner, other charges etc for clearing drainage lines.	15	Hr	3688.04	55320.642
10	Engaging Tractor with Dozer machine along with Ploughing backside of tractor at required places in Township area as directed by Engineer-in-charge.	2	Hr	1009.61	2019.216
Lettering of Boards and Banners				0.00	0
1	Applying one coat of synthetic enamel paint of Apcolite brand and an approved shade to the speed breakers and road sign boards including cost of all materials, labour etc complete etc complete all as directed by Engineer-in-charge.	550	Sqm	33.31	18318.674
2	Preparing the supplied boards of different sizes to receive the painting as per the drawing and painting the letters of different sizes in different shapes with synthetic enamel paint of approved make in different shades as per the instructions. The quoted rate shall include rubbing of the existing painted surface to receive the new painting and cost of all materials like brushes, paints etc etc directed by Engineering - in charge.	25	Sqm	337.48	8437
3	Providing radium sticker letters and arrow marks of approved colour and design and size. The base board will be supplied by the department and as directed by the Engineer-in-charge.	1	Sqm	2360.04	2360.03658
4	Supply and fixing of self glow radium sticker on the radium paper including cutting charges, fixing charges etc complete as directed by Engineer-in-charge.	1	Sqm	7080.11	7080.10974
5	Labour charges for 2 coats painting run way / taxi track / apron marking with adequate number of coats to give uniform finish with road marking supplied paint including cleaning the surface of all dirt, scales, oil, grease and other foreign material etc and lining out etc complete all as directed by Engineer-in-charge.	1	Sqm	48.30	48.29858

6	Supply and fixing of satin cloth flags of 1 mtr x 3 mtrs in size and providing BHEL monogram on the flag including stitching charges, cost of all materials etc complete all as directed by Engineer-in-charge.	8	Each	389.30	3114.36928
WOOD/ PVC WORKS					0
1	Providing wood work in frames of doors windows, clerestory windows and other frames, wrought framed and fixed in position				0
A	Second class teak wood	1	cum	67537.80	67537.7956
2	12mm thick pre laminated particle board (decorative lamination on both sides) grade- 1, medium density flat pressed three layer particle board FPT-1 or graded wood particle board FPT-1, conforming to IS 3087 bonded with BWP type synthetic resin adhesive as per IS 848 and prelaminated conforming to IS 12823 grade 1, type -II marked	1	sqm	2077.8	2077.8
3	Providing and fixing glazed shutters for doors windows and clerestory windows using 4mm thick float glass panes including black enamelled ISI marked MS butt hinges with necessary screws.				0
	Second class teak wood				0
A	30mm thick	1	sqm	2970.9	2970.9
4	Supply, fabrication and fixing of Ornamental M.S. grills for staircase door frames with shutters 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.	100	kg	53.26	5325.694
5	Providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall dimensions as below (tolerance ± 1 mm) with wall thickness 2.0mm ± 0.2 mm, 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				0
a	Extruded section profile size 48x40mm	51	mtr	166.24	8478.1125
b	Extruded Section Profile size 42x50mm	8.48	mtr	200.59	1700.982

6	Providing and fixing to existing door frames 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	15	sqm	1320.525	19807.875
7	Supplying and fixing of medium Indian teakwood window shutters 30 mm thick fully glazed with 3 mm thick glass of approved quality including cost and fixing of MS fixtures, fittings and furniture of superior quality etc., complete as directed by the Engineer-in-charge	1	One Sqm	2071.24	2071.24456
8	Supplying and fixing of medium Indian teak wood window shutters 30 mm thick fully panelled including fixing of M.S. fixtures, fittings and furniture of superior quality etc., complete as directed by the Engineer-in-charge .	1	One Sqm	1982.95	1982.9546
9	Supplying and fixing of medium Indian teak wood window shutters 30 mm 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., complete as directed by the Engineer-in-charge.	5	One Sqm	1824.90	9124.4857
10	Supply and fixing well seasoned medium Indian teak wood window / ventilator frames made out of scantling of size 75x75 mm including fixing of M.S hold fasts 16 mm dia MS rounds spaced at not more than 10.5cm centre to centre, cost of all materials etc., complete as directed by the Engineer-in-charge. (This includes dismantling the existing frames, brick work, P.C.C etc., and making good to a neat finish etc., complete wherever necessary).	5	One Sqm	1849.56	9247.7957
11	Supplying and fixing weldmesh door partly panelled and partly weldmesh double leaf shutters 30 mm thick using medium Indian teakwood and weldmesh of size 75x25 mm, 10x8 guage including supplying and fixing of M.S. fixtures, fittings and furniture of superior quality etc., complete as directed by the Engineer-in-charge.	2	One Sqm	1824.90	3649.79428

12	Supply and fixing weldmesh door double leaf shutter 30 mm thick using best Indian teakwood and weldmesh of size 75 x 25mm, 10 x 8 guage including supplying and fixing of MS fixtures, fittings and furniture of superior quality etc., complete as directed by Engineer-in-charge.	5	One Sqm	1639.95	8199.7256
13	Supplying and fixing of weldmesh of size 75x25mm, 10x8 guage with 75 x 25 mm seasoned medium Indian teakwood reapers to the existing windows including 2 coats of painting with synthetic enamel paint of approved shade and brand over a coat of primer, making holes wherever necessary for operating the fixtures, furniture, cost of all materials etc., complete.	3	One Sqm	840.71	2522.1438
14	Supplying and fixing of best approved quality aluminium sheeting 24 guage to the faces and edge of door shutters including fixing with best quality GI screws and cup washers, cost of all materials etc., complete as directed by the Engineer-in-charge. (The measurement shall be made for both sides of door only)	1	One Sqm	244.36	244.36148
15	Supplying of medium Indian teak wood planks of 19 mm thick in various sizes as directed upto a length of 2.40 M.	1	One Sqm	1536.82	1536.81902
16	Supplying and fixing of seasoned medium Indian teakwood reapers of size 50 x 25 mm horizontally on the wall surface by providing wooden pegs and fixing with MS screws etc., complete.	1	One Rmt	65.57	65.57496
17	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 as directed by the Engineer-in-charge.	1	One Sqm	1204.86	1204.85552
18	Conveying from the stores of wooden / PVC - single / double leaf door shutters and fixing in position at places as directed with all required fittings etc (Door will be free issue from BHEL store)	1	One Sqm	148.65	148.64696
19	Supplying and fixing of PVC netlon mesh of approved colour to the existing windows/Doors mesh shutters/Frames with male and female posting arrangements etc. complete as directed by the Engineer-in-charge	1	One Sqm	217.79	217.79142
20	Supply and fixing of 100 mm vertical blinds including imported spare parts and Indian fabric including cost of materials, fixtures and fittings etc., complete as directed by the Engineer-in-charge.	3	One Sqm	1084.91	3254.72202
21	Providing and fixing Milkwhite acrylic sheet with 4mm thick & lettering with engraving & embossing.	1	One Sqm	1008.86	1008.85752

22	Providing & fixing anodised aluminium work for doors, windows, ventilators & partitions with extruded built up standard tubular & other sections of approved make conforming to IS : 733 & IS : 1285, anodised transparent or dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15), fixed with rawl plugs & screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/Neoprene felt etc., Aluminium sections shall be smooth, rust free, straight, mitred & joined mechanically wherever required including cleat angle. Aluminium snap beading for glazing/panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings & the directions of Engineer-in-charge (glazing and panelling to be paid for separately). for all types of works	1	kg	286.88	286.88396
23	Supplying and fixing 12 mm thick Novapan / Duratoff or equivalent exterior grade phenol banded weather resistant melamine faced prelaminated particle board (PTX) for partition frame work door shutters, louvers with lipping etc., with teakwood reaper including cost of all materials, labour etc., complete	1	sqm	499.63	499.62616
24	Supply and fixing of plain glass panes / pin headed / ground glass panes frosted of 4 MM thick of required sizes with proper wooden beedings/glass putty required for fixing to the existing broken glass panes along with the beading/glass putty, cost of all materials and labour etc complete all as directed.	5	sqm	480.88	2404.4152
25	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.50 mm thickness	2	sqm	715.64	1431.27864
26	Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade-D) or graded wood particle board IS : 3087 marked to frame, backing or studding with screws etc. complete (Frames, Backing or studding to be paid separately)				0
a	12 mm thick	1	sqm	635.8875	635.8875
b	18 mm thick	5	sqm	843.70	4218.5

27	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms vanity counters window sills facias and similar locations of required size of approved shade colore and texture laid over 20mm thick base cement mortar 1:4(1cement 4 coarse sand) with joints treated with white cement mixed with matching pigment epoxy touch ups, including rubbing curing moulding and polishing to edge to give high gloss finish etc. complete at all levels.				0
a	Granite stone of any colour and shade	2	sqm	3005.7375	6011.475
28	Repairs to the existing doors, windows, ventilators and cup boards including frame, shutters, fittings, weldmesh, T.W beadings etc., all as directed by the <u>Engineer-in-charge.</u>	5	One Sqm	165.39	826.9558
29	Supplying and fixing of PVC netlon mesh of approved colour to the existing windows/Doors mesh shutters/Frames with male and female posting arrangements etc. complete as directed by the <u>Engineer-in-charge.</u>	1	One Sqm	217.79	217.79142
30	Labour charges for removing of existing old flymesh etc. complete as directed by the Engineer-in-charge.	1	One Sqm	32.77	32.7745
ROOFING ITEMS					0
1-a	Supply & Fixing of colour coated galvalume Hirib profile sheet of nominal 1000 mm width and 30 mm deep ribs with subtle square fluting in the five pan at nominal 200 mm centre-to-centre. The plain sheet width without profile shall be 1220mm. The end rib shall be designed for anti-capillary action, to avoid any seepage of water through the lateral overlap. Total Painted thickness of sheets to be 0.50 mm TCT. Hi-strength steel with minimum 550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% Aluminum, 1.6% silicon and remaining 43.4% Zinc) as per A792/A792M, AS 1397 –Zincalume AZ150/AZM150 (Min. 150 gms/sq.mt total on both sides). The paint shall have a total coating thickness of nominal 35±3 µm, comprising of nominal 20 µm exterior coat on top surface and nominal 5 µm reverse coat on back surface over nominal 5 µm primer coat on both surfaces of approved colour/shade. The paint Coating Type should be Silicon Modified Polyester (SMP). The raw material of painted roll should be procured for either JSW steel/Bhushan steel/Tata BlueScope steel. The	390	Sqm	743.12	289815.552

b	Providing and fixing precoated galvanised iron plain sheets 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	350	Sqm	312.225	109278.75
2	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) <u>single socketed pipes</u>				
a	75mm diameter	5	mtr	150.825	754.125
b	110mm diameter	5	mtr	228.7875	1143.9375
3	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer in- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	350	sqm	470.6625	164731.875
4	Providing and fixing precoated galvanised steel sheet roofing (of required colour as specified by EIC) accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7microns epoxy primer on both side of the sheet and polyester topcoat 15-18 microns using self drilling/ self tapping screws complete.				
a	Ridges plain (500 - 600mm)	20	mtr	487.93	9758.6236
b	Flashings/ Aprons.(Upto 600 mm)	20	mtr	472.99	9459.824
c	North light curves	20	mtr	509.31	10186.1848
d	Barge board (Upto 300 mm)	20	mtr	445.28	8905.578
e	Crimp curve	15	mtr	486.17	7292.4885
f	Gutter .(600 mm over all girth)	15	mtr	593.55	8903.2416

5	Dismantling the existing garrage structural work, AC sheets and MS angles including stacking & handing over of service cable materials and disposal of debris all as directed by Engineering - in - charge.	5	Each Shed	2949.41	14747.0323
MISCELANEOUS WORKS					0
1	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.	5000	Sqm	1.32	6619.8
2	Erection RCC poles/M.S angles posts in position by coveying the same to the places as directed.	812	Each	37.82	30712.86064
3	Labour charges for fixing of chain link mesh to the existitng poles with a required tools, material etc complete all as directed by Engineer-in-charge.	5000	Sqm	20.98	104878.4
Total (Inclusive of taxes)(Rs)					6544056.84

Tender % on A	
	In Words
Excess	
Less	
Estimat	
*	The bidders are required to quote the tender value on percentage (%) basis at excess or less or on par with estimated value in figures and words.Bidders are requested to fill only one row.
1	Risk Purchase : In case the contractor fails to execute the work within the scheduled time or due to any other reasons, BHEL reserves the right to get the same completed through some other party at the risk & cost of the contractor and any additional expenditure incurred due to the same shall be charged to the contractor.
2	All the materials are in the Contractor Scope Only .
3	The rates are Including taxes.
4	The contract period is Twelve (12) Month and maintenance period is Twelve(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.

5	<p>Penalty terms:</p> <p>1. In the event of delay in supply of goods and or services beyond contractual delivery date, penalty of 0.5% per week or part there of shall be levied on the gross value of work done subject to a maximum of 10% of the gross value of the total work executed. Penalty amount so determined along with GST if applicable thereon shall be recovered.</p> <p>2. If the contractor fails to deposit the required security deposit or commence the work within the specified period as per LOI/Contract. The EMD will be forfeited.</p> <p>3. If the agency fails to commence the work as requested by the department, a penalty of 0.5% on the gross value of work for weeks delay will be applicable subjected to maximum of 10% of the gross value of the total work. Penalty amount so determined along with GST if applicable thereon shall be recovered.</p> <p>4. The following conditions have to be met a) Not less than 10% of value of works executed shall be roof treatment works like APP membrane, Cement concrete repair, laying of impervious coat etc.b). Not less than 5% of value of works executed shall be quarters outside wall plastering including repairs irrespective of floor heights c) Not less than 5% of value of works executed shall be carpentry works d) Not less than 5% of value of works executed shall be fabrication works.e). Not less than 5% of value of works executed shall be roof cleaning works including removal of vegetation over chajjas, walls, near bend pipes, below water tanks irrespective of floor heights and cleaning, removal of vegetation from open rain water drains including disposal as per the direction engineer-in-charge. If the above conditions are not met by contractor (or) If contractor does not execute the above mentioned works in full, 20% of the awarded value of the unexecuted portion of the respective item shall be imposed as penalty and will be recovered from the bills. This penalty is in addition to the overall penalty if applicable. Penalty amount so determined along with GST if applicable thereon shall be recovered</p>
6	Taxes: Bidders shall quote their Basic price Inclusive of taxes.
7	The tender % age quoted by the contractor shall be Inclusive of all taxes.
8	IR Clearance is not required for the works less than Rs. 50,000/-.
9	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= ₹ 565.65, SSW= ₹ 602.99, SW = ₹ 638.8 + ESI + PF + PPE's and other statutory if any increase in future DA is to be borne by the agency.
10	The agency has to bring police clearance certificate for the work force.
11	All the terms and conditions of the contact with respect to taxes & duties are subject to the new taxation laws introduced from time to time (e.g. GST). The terms and conditions will be modified in accordance with the provisions of new laws (e.g. GST).
12	Payment shall be made stage wise on approval from engineer in charge
13	Vendor shall raise GST invoice on BHEL Hyd GSTIN.
14	If BHEL is unable to avail the input tax credit, the same amount shall be recovered from the vendor bills.
15	Use of stone dust is not permitted in any civil works.
	GST CLAUSES
17	Following points to be complied with :
18	In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from vendor along with interest levied/leviable on BHEL.
19	In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from vendor/contractor along with interest levied / leviable on BHEL.
20	The bidder shall arrange to send to BHEL, Hyderabad along with all the required documents as in Purchase Order, Tax Invoice (Original for Recipient) along with his bills.
21	Vendor to ensure correct applicability of IGST/CGST/SGST/UTGST based on the Inter /Intra state movement Supply of goods and services or both.
22	Taxes and duties prevalent on the contractual delivery date or the actual delivery date (in case of delay) whichever is lower shall be applicable paid. Composition Scheme to be addressed.
23	Vendor shall note that the Invoice has to be raised quoting HSN Code of Goods or Accounting Code of Services or both wherever applicable.
24	Invoice should mention BHEL-HPEP-HYDERABAD GSTIN: 36AAACB4146P1ZG or GSTIN of BHEL Nodal Agency as mentioned in PO.
25	In case of any short supply of goods or service Vendor has to raise a credit note for short supplied quantity as per GST provisions
26	Any GST liability arising on BHEL under reverse charge before actual receipt of goods and or services and/or invoice thereof would be subject to recovery of interest leviable for the period between the date of such liability and actual date of eligibility of ITC based on receipt of goods, receipt of invoices and other conditions specified in GST law, as applicable.
27	Supplier shall mention their GST registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.

