

NATIONAL FERTILIZERS LIMITED - PANIPAT

CIVIL ENGINEERING DEPARTMENT

ESTIMATE FOR : "ARC for Misc. Civil Works in Factory & Township Areas and Operation of Sump House in Township during 2024-25"

TENDER ISSUED TO :

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New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
	<b>CHAPTER -1: CARRIAGE :</b>					
1.00	Carriage of material by Mechanical transport including loading, unloading & stacking upto 1km I.e. within Factory/Township Areas.					
1.01	Lime, moorum, building rubbish	Cu.M	160.00			0.00
1.02	Earth.	Cu.M	51.00			0.00
	<b>CHAPTER - 2 : EARTH WORK :</b>					
2.00	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed : All kind of soil	Sq.M.	126.00			0.00
3.00	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be I All kinds of soil	Cu.M	50.00			0.00
4.00	Earth work in excavation by Mechanical Means (Hydraulic Excavator) / Manual means in foundation trenches or drains not exceeding 1.5m in width or 10 sq.m. on plan including dressing of sides and ramming of bottoms, lift upto 1.5m including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50m: All kinds of soil	Cu.M	200.00			0.00
5.00	Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering etc. and disposal of surplus excavated soil as directed within a lead of 50m: All kinds of soil Pipes, Cables, etc. not exceeding 80mm dia.	METRE	40.00			0.00
6.00	Extra rates for quantities of works, executed:In or under water and/or liquid mud.	METRE DEPTH	3.50			0.00
7.00	Filling available excavated earth(excluding rock) in trenches plinth sides of foundation etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1.5 m.	Cu.M	215.00			0.00
8.00	Extra for every additional lift of 1.5m or part thereof in: All kinds of soil	Cu.M	4.00			0.00
9.00	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming, consolidating and dressing complete.	Cu.M	55.00			0.00
10.00	Surface dressing of the ground including removing vegetation, and inequalities not exceeding 15cm deep and disposal of rubbish lead upto 50m and lift upto 1.5m: All kinds of soil	Sq.M	3500.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
11.00	Excavating holes upto 0.5 cu.m including getting out the excavated soil then returning the soil as required in layer not exceeding 20cm in depth, including consolidating each deposited layer by ramming watering etc disposing of surplus excavated soil as directed with in a lead of 50m and lift upto 1.5m: All kinds of soil	EACH	60.00			0.00
	<b>CHAPTER - 3 : CEMENT MORTAR :</b>					
12.00	Cement Mortar					0.00
12.01	Providing and laying Cement Mortar 1 : 3 ( 1 Cement : 3Fine Sand ) on top of Boundry wall and fixingbrocken glass pieces as a security measures or at any other location for any other work.	Cu.M	1.50			0.00
	<b>CHAPTER - 4 : CONCRETE WORK</b>					
13.00	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering All works upto plinth level.					0.00
13.01	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cu.M	22.00			0.00
13.02	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size). 20mm nominal size).	Cu.M	140.00			0.00
13.03	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size).	Cu.M	62.00			0.00
13.04	1:5:10 (1 cement:5 Fine sand: 10 graded stone aggregate 40mm nominal size).	Cu.M	22.00			0.00
14.00	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement:3 coarse sand:6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated grouted with fine sand including finishing the top smooth.	Sq.M	330.00			0.00
	<b>CHAPTER - 5 : REINFORCED CEMENT CONCRETE</b>					
15.00	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring,shuttering,finishing and reinforcement. All work upto plinth level.					0.00
15.01	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).	Cu.M	6.00			0.00
15.02	1:2:4 (1 cement:2 coarse sand: 4 graded stone aggregate 20mm nominal size).	Cu.M	42.00			0.00
16.00	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cu.M	26.00			0.00
17.00	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in lintels, beams and bressumers, including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	Cu.M.	35.00			0.00

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				In Figure	In Word	
18.00	Centering and shuttering including strutting, propping etc.and removal of form for:					
18.01	Foundations, footings, bases of columns etc. or mass concrete and precast shelves.	Sq.M	155.00			0.00
18.02	Suspended floors, roofs, landings balconies and access platforms.	Sq.M	25.00			0.00
18.03	Shelves.(Cast in situ)	Sq.M	12.00			0.00
18.04	Lintels, beams, plinth beams,girders,bressumers and cantilevers.	Sq.M	20.00			0.00
19.00	Reinforcement for RCC work ( Tor or Mild ) including bending, binding, straightening and placing in position complete ( Tor / Mild steel will besupplied by NFL free of cost).	Kg.	6000.00			0.00
	<b><u>CHAPTER - 6 : BRICK WORK</u></b>					
20.00	Brick work with common burnt clay FPS (Non modular) bricks of class designation 7.5 in foundation and plinth in :					
20.01	Cement Mortar 1:6 (1 cement : 6 fine sand)	Cu.M	80.00			0.00
20.02	Cement Mortar 1:4 (1 cement : 4 fine sand)	Cu.M	7.00			0.00
21.00	Brick work with common burnt clay FPS (Non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all size & shape :					
21.01	Cement Mortar 1:6 (1 cement : 6 coarse sand)	Cu.M	50.00			0.00
21.02	Cement Mortar 1:4 (1 cement : 4 coarse sand)	Cu.M	7.00			0.00
22.00	Half brick masonry with common burnt clay FPS (Non modular) bricks of class designation 7.5 in foundations and plinth in cement mortar 1:4 (1 cement : 4 coarse sand)	Sq.M	175.00			0.00
23.00	Half brick masonry with common burnt clay FPS (Non modular) bricks of class designation 7.5 in Superstructure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand)	Sq.M	35.00			0.00
	<b><u>CHAPTER - 8 : MARBLE WORK</u></b>					
24.00	Providing and fixing 18 mm thick gang saw cut mirror polished, premoulded and prepolished machine cut for kitchen plateforms, vanity counters facias and similar locations of required size of approved shade colour and texture laid over 20 mm thick base cement mortar 1 : 4 ( 1 Cement : 4 Coarse sand) with joints treated with white cement mixed with matching pigment, epoxy touch up including rubbingcuring etc. complete : Area over 0.50 Sq.M.					
24.01	a) Rajnagar Plain white Marble	Sq.M	2.00			0.00
24.02	b) Granite of any colour and Shade	Sq.M	40.00			0.00
25.00	Mirror Polishing on existing Marble work / Stone work wherever required to give high gloss finish	Sq.M	2.00			0.00
	<b><u>CHAPTER - 9 : WOOD WORK</u></b>					

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
26.00	Providing and fixing presed 3 layer partical board medium density exterior grade (grade 1) or graded woodarticle board IS :3087 marked to frame, backing or studding with screws etc. . complete (Frames, backing or studding to be paid separately) 18mm thick	Sq.M	50.00			0.00
27.00	Providing and fixing 18mm thick, 150mm wide pelmet of flat pressed 3 layer or graded wood particle board medium density grade I, IS:3087 marked including top cover of 6 mm commercial ply wood conforming to IS:303 BWR grade nickel plated M.S. pipe 20 mm dia (Heavy Type) curtain rod with nickle plated brackets including (heavy type) curtain rod with nickel plated brackets including fixing with 25x3 mm M.S. flat 10 cm long fixed to pelmet with Hollock wood cleats of size 100mmX40mmX40mm on both inner side of pelmet and rawl plugs 75 mm long etc all complete.	METRE	2.00			0.00
28.00	Providing and fixing nickel plated M.S. Pipe curtain rods with nickelplated brackets 20mm dia (heavy type)	METRE	170.00			0.00
29.00	Providing and fixing M.S.Grill of required pattern in wooden frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.					
29.01	a) Fixed to steel windows by welding.	Kg.	41.00			0.00
29.02	b) Fixed in opening/wooden frame with rawl plugs screws etc.	Kg.	111.00			0.00
30.00	Providing 40x5mm flat iron hold fast 40cm long including fixing to frame with 10mm dia bolts;nuts and wooden plugs and embeddings in cement conc block 30x10x15cm 1:3:6 mix(1cement:3coarse:6graded stone aggregate 20mm nominal size)	EACH	56.00			0.00
31.00	Providing and fixing ISI marked oxidised M.S. pressed butt hinges bright finished with necessary screws etc. complete :					
31.01	a) 100x58x1.9mm	EACH	200.00			0.00
31.02	b) 75x47x1.7mm	EACH	110.00			0.00
32.00	Providing M.S. Piano hinges ISI marked IS:3818 finished with nickle plating and fixing with necessary screws etc..complete.					
32.01	Overall width 35mm	METRE	2.00			0.00
33.00	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : 250x16mm	EACH	20.00			0.00
34.00	Providing and fixing ISI marked oxidised M.S.Tower bolt black finish (barrel type) with necessary screws etc.complete					
34.01	a) 200x10mm	EACH	20.00			0.00
34.02	b) 150x10mm	EACH	750.00			0.00
35.00	c) 100x10mm	EACH	300.00			0.00
36.00	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :					
36.01	100mm	EACH	600.00			0.00
36.02	75mm	EACH	50.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
37.00	Providing and fixing ISI marked oxidised M.S. hasp and staple (safety type) conforming to IS:363 with necessary screws etc. complete.					
37.01	90mm	EACH	7.00			0.00
38.00	Providing and fixing oxidised M.S.casement stays (Straight peg type) with necessary screws etc. complete.					
38.01	300mm weighing not less than 200 gms.	EACH	2.00			0.00
39.00	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564,					
39.01	embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjust	EACH	70.00			0.00
40.00	Providing & fixing chromium plated brass 100mm mortice latch and lock with 6 levers & a pair of lever handles of approved quality with with necessary screws etc. complete	EACH	18.00			0.00
41.00	Providing and fixing Aluminium Tower Bolts ISI Marked anodised (Anodic Coating not less than AC 10 as per IS : 1868 ) transparent or dyed to required colour / shade with necessary screws complete :					
41.01	a) 200 X 10 mm	EACH	7.00			0.00
41.02	b) 150 X 10 mm	EACH	11.00			0.00
41.03	c) 100 X 10 mm	EACH	6.00			0.00
42.00	Providing and fixing Aluminium handles ISI Marked anodised (Anodic Coating not less than AC 10 as per IS : 1868 ) transparent or dyed to required colour / shade with necessary screws etc. complete :					
42.01	a) 125 mm	EACH	20.00			0.00
42.02	b) 100 mm	EACH	10.00			0.00
43.00	Providing & fixing aluminium hanging floor door stopper ISI Marked anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour and shade with necessary screws etc. complete. Twin rubber stopper	EACH	170.00			0.00
44.00	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	10.00			0.00
<b>CHAPTER - 10 : STEEL WORK</b>						
45.00	ALL STRUCTURAL STEEL TO BE ARRANGED BY THE PARTY FROM OPEN MARKET AT HIS COST).					
45.01	Structural Steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer : all complete.	Kg.	1600.00			0.00
46.00	Structural Steel work riveted, bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg.	450.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
47.00	Steel work welded in built up sections/framed work including cutting hoisting,fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
47.01	In gratings,frames,guard bars,ladders,railings,brackets, gates and similar works.	Kg.	2240.00			0.00
48.00	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides an					
48.01	80x1.25mm M.S. laths with 1.25 mm thick top cover.	Sq.M	28.00			0.00
49.00	Providing and fixing ball bearing for rolling shutters.	EACH	51.00			0.00
<b>CHAPTER - 11 : FLOORING</b>						
50.00	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm thick cement mortar includingfilling the joint with same mortar, with common burnt clay Non Modular Bricks					
50.01	1:6 (1 cement : 6 coarse sand)	Sq.M	21.00			0.00
51.00	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete.					
51.01	40mm thick with 20mm nominal size stone aggregate	Sq.M	70.00			0.00
52.00	Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size include finishing complete.	Cu.M	2.00			0.00
53.00	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS:15622 (Thickness to be specified by manufacturer) of approved make in all colours and 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 joining with grey cement slurry @ 3.3 kg. per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sq.M	100.00			0.00
54.00	Providing and fixing ceramic glazed floor tiles300 X 300 mm (Thickness to be specified by manufacturer) of 1st quality conforming to IS:15622 of approved make in clours such as White, Ivory, Grey, Fume Red Brown etc. laid on 20 mm thick CementMortar 1:4 ( 1 Cement : 4 Coarse Sand) including pointing the jointswith white cement and matching pigment etc., complete.	Sq.M.	100.00			0.00
55.00	Providing & laying Vitrified Floor Tiles in different sizes (thickness to be specified by the manufacturer) with water absorptions less than 0.08 % and confirming to IS 15622 of approved make in all colours and shades laid on 20mm thickcement mortar1 : 4 (1 cement : 4 coarse sand Including grouting the joints with white cement and matching pigmnets etc. complete					
55.01	l) Size of tile 600 mm X 600 mm	Sq.M	65.00			0.00
<b>CHAPTER - 12 : ROOFING</b>						

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
56.00	Providing corrugated G.S. Sheet roofing including Vertical / curved surfaces fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (upto a 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 :: 0.63mm thick with zinc coating not less than 120 gms/m2	Sq.M	210.00			0.00
57.00	Providing high impact Polypropylene reinforced cement 6 mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	Sq.M	210.00			0.00
58.00	Providing and fixing ridges and hips in fibre cement high impact polypropylene reinforced roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.	METRE	30.00			0.00
59.00	Providing and fixing fibre cement high impact polypropylene reinforced roofing accessories in all colours with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers or with self drilling fastener and EPDM washer etc. complete:					
59.01	a) North light curves	METRE	50.00			0.00
59.02	b) Ventilators Curves	METRE	10.00			0.00
60.00	Painting top of roofs with bitumen of approved quality at 17 kg. per 10m2 impregnated with a coat of coarse sand at 60dm3 per 10m2 including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete.					
60.01	With residual type petroleum bitumen of Grade VG-10	Sq.M	2.00			0.00
61.00	Providing gola 75x75mm in cement concrete 1 cement : 2 coarse sand:4 stone aggregate 10mm and down guage) including finishing with cement mortar 1:3( 1 cement: 3 fine sand) as per standard design.					
61.01	In 75x75mm deep chase.	METRE	108.00			0.00
62.00	Providing and fixing on wall face unplasticised - Rigid PVC rain waterpipes conforming to IS:13592 Type A including jointing with sealring conforming to IS : 5382 leaving 10mm gap for thermal expansion. (I) Single socketed pipes					
	(II) Single socketed pipes					
62.01	a) 75 mm diameter	METRE	110.00			0.00
62.02	b) 110mm diameter	METRE	300.00			0.00
63.00	Providing and fixing on wall face unplasticised PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type- A including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion.					
63.01	Coupler 75mm	EACH	25.00			0.00
63.02	Coupler 110mm	EACH	40.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
63.03	Single tee with door 75x75x75 mm	EACH	10.00			0.00
63.04	Single tee with door 110x110x110 mm	EACH	20.00			0.00
63.05	Bend 87.5 degreee 75 mm	EACH	30.00			0.00
63.06	Bend 87.5 degreee 110mm	EACH	65.00			0.00
63.07	Shoe(Plain) 75 mm	EACH	21.00			0.00
63.08	Shoe(Plain) 110mm	EACH	11.00			0.00
	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (bothside inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dashfastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I	Sqm	100.00			0.00
64.00						
65.00	Providing and fixing unplasticised-PVC pipe clips of approved design to unplasticised PVC rainwater pipes by means of 50X50X50 mm hard wood plugs screwed with M.S. screws of required length including cutting of brickwork and fixing in cement mortar 1:4 (cement : 4 coarse sand) and making good the wall etc. complete.					
65.01	110mm	EACH	3.00			0.00
	<b>CHAPTER - 13 : FINISHING</b>					
66.00	12mm cement plaster of mix 1:6 (1 cement : 6 fine sand).	Sq.M	3500.00			0.00
67.00	15mm cement plaster on the rough side of single or half brick wall of mix 1:6 (1 cement : 6 fine sand).	Sq.M	550.00			0.00
68.00	12mm cement plaster of mix 1:4 (1 cement:4 coarse sand)	Sq.M	102.00			0.00
69.00	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement- 12 mm Cement Plaster	Sq.M	220.00			0.00



New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
70.00	Pointing on brick work or Brick Flooring with cement mortar 1:3 ( 1 cement : 3 fine sand ) ;					
70.01	Flush / ruled / struck or weathered Pointing.	Sq.M	600.00			0.00
	<b>CHAPTER - 14 : REPAIRS TO BUILDING</b>					
71.00	Repairs to plaster of thickness 12 to 20 mm in patches of area 2.5 sq.metres and under including cutting the patch in proper shape,raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.					
71.01	With cement mortar 1:4 (1 cement : 4 fine sand):	Sq.M	1200.00			0.00
72.00	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded sto					
72.01	i ) Door chokhats.	EACH	4.00			0.00
72.02	ii ) Window chowkhats.	EACH	2.00			0.00
72.03	iii ) Clerestory window chowkhats.	EACH	2.00			0.00
73.00	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty					
73.01	Float Glass panes of thickness 4 mm weighing 10 kg/m2	Sq.M	80.00			0.00
74.00	Renewing glass panes and re-fixing existing wooden fillets					
74.01	Float Glass panes of thickness 4 mm	Sq.M	190.00			0.00
74.02	Float glass panes of thickness 5.5 mm	Sq.M.	12.00			0.00
75.00	Supplying and fixing new wooden fillets wherever necessary: Red Marindi wood fillets.	METRE	140.00			0.00
76.00	Renewal of old putty of glass panes(length)	METRE	70.00			0.00
77.00	Regrading terracing of mud phaska covered with tiles or bricks, in cement by dismantling tiles or bricks, removing mud plaster preparing the surface of mud phaska to proper slope relaying plaster gobri leaping and tiles or bricks, grouted in cement mortar 1:3(1cement: 3 fine sand) including replacing unserviceable tiles or bricks with new ones and disposal of unserviceable material to the dumping ground(the cost of the new tiles or bricks excluded) within 50 mtrs. lead.	Sq.M	11.00			0.00
78.00	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering including disposal of rubbish to the dumping ground within 50 metres lead.	Sq.M	111.00			0.00
	<b>CHAPTER - 15 : DISMANTLING AND DEMOLISHING</b>					
79.00	Demolishing cement concrete manually /by Mechanical meansincluding disposal of material within 50mtrs lead.As per Direction of Engineer in Charge 1:3:6 or richer mix.	Cu.M	75.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
80.00	Demolishing RCC manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.	Cu.M	22.00			0.00
81.00	Extra for cutting reinforcement bars manually / by Mechanical means in R.C.C. or R.B. work(Payment shall be made on the cross sectional area of R.C.C. or R.B. work).As per Direction of Engineer in Charge	Sq.M	11.00			0.00
82.00	Demolishing brick work manually / by Mechanical means including stacking of serviceable material & disposal of unserviceable material within 50mtrs lead :As per Direction of Engineer in Charge In Cement Mortar.	Cu.M	40.00			0.00
83.00	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : of area 3 sq.m. and below.(Double leaf shutter shall be treated as 1 unit only for measurement ) MS Grill from window/vent chowkhats )	EACH	3.00			0.00
84.00	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:					
84.01	Asbestos Sheets ( CGI Sheets/ Aluminium / any other type Sheets)	Sq.M	410.00			0.00
85.00	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking with in 50 metre lead.	Kg.	41.00			0.00
86.00	Dismantling manually / by Mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead:As per Direction of Engineer in Charge					
86.01	Water bound macadam road	Sq.M	51.00			0.00
86.02	Bituminous road.	Sq.M	51.00			0.00
87.00	Dismantling G.I. pipe (external/internal) including excavation and re-filling trenches after taking out the pipes manually /by mechanical means including stacking of pipes within 50 meter lead.As per Direction of Engineer in Charge					
87.01	15mm to 40mm nominal bore.	METRE	75.00			0.00
87.02	Above 40mm. nominal bore.	METRE	2.00			0.00
88.00	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground with in 50 metre lead.	Sq.M	260.00			0.00
89.00	Dismantling aluminium/ Gypsum or wooden partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	Sq.M	26.00			0.00
<b>CHAPTER - 16 : ROAD WORK</b>						
90.00	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals othe post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used. ( Payment to be made on the bases of per Metre length of individual barbed wire erected) With G.I. barbed wire.	METRE	2.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
91.00	Supplying at site Angle Iron Posts and struts of required sizes including bottom to be split and bent at right angle in opposite directions for 10 cm length and drilling holes upto 10 mm dia	Kg	250.00			0.00
92.00	Providing and fixing concertina coil fencing with punched tape concertina coil 600	Metre	300.00			0.00
93.00	Providing and laying 60mm thick factory made cement concrete interlocking paver	Sq.M	400.00			0.00
94.00	Providing and fixing GI chain link fabric fencing of required width in mesh size 25 x 25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts bolts and washers as required complete as per direction of Engineer In charge.	Sq.M	500.00			0.00
95.00	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer in- charge. (Old CC paver blocks shall be supplied by the department free of cost).	Sqm	100.00			0.00
<b><u>TOTAL OF CHAPTER - 16</u></b>						
<b><u>CHAPTER - 17 : SANITARY INSTALLATION</u></b>						
96.00	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid 10 liters low level white vitreous china low level flushing cistern & CP flush bend flushing cistern with fittings and CI / MS brackets, 40mm flush bend, overflow arrangement with specials of standarder make and mosquito proof coupling of approved municipal design complete including painting of fittings and bracket, cutting and making good the walls and floors wherever required :					
96.01	W.C.Pan with black/white solid plastic seat and lid	EACH	3.00			0.00
97.00	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:- (a) White Vitreous China					
97.01	Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	EACH	2.00			0.00
98.00	Providing and fixing / replacing Stainless steel A ISI 304 kitchen sink as per I.s. 13983 with C.I. Brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required:					
98.01	Kitchen sink without drain board. 610 X 460mm bowl depth 200 mm	EACH	12.00			0.00
99.00	Providing and fixing / replacing white vitreous china water closet squatting pan (Indian type)					
99.01	Long pattern W.C. pan of size 580mm./ Orrisa pattern 580 X 440 mm	EACH	25.00			0.00
100.00	Providing and fixing / replacing white vitreous china pedestal type (European type/wash down type) water closet pan of approved make	EACH	15.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
101.00	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	EACH	30.00			0.00
102.00	Providing and fixing / replacing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS 7231, with all fittings and fixtures complete					
102.01	10 litre capacity - White	EACH	40.00			0.00
103.00	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete:					
103.01	White Solid Plastic Seat with lid	EACH	70.00			0.00
104.00	Providing and fixing / replacing controlled flush low level cistern made of vitreous china with all fittings complete :					
104.01	10 Litre (full flush) capacity - white	EACH	3.00			0.00
105.00	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C.Pan	EACH	25.00			0.00
106.00	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge. 15 mm nominal dia	EACH	2.00			0.00
107.00	Providing and fixing / replacing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm					
107.01	and 340x410x265mm sizes respectively.	EACH	10.00			0.00
108.00	Providing and fixing / replacing white vitreous china wash basin including making all connections but excluding the cost of fittings :					
108.01	Flat back wash basin of size 550x400mm.	EACH	15.00			0.00
108.02	Flat back wash basin of size 450x300mm	EACH	14.00			0.00
109.00	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C.waste fittings complete.					
109.01	semi rigid pipe 32 mm dia	EACH	1250.00			0.00
110.00	Providing and fixing 100mm Sand Cast Iron/C.P. grating for gully trap.	EACH	175.00			0.00
111.00	Providing and fixing / replacing 600 X 450 mm bevelled / Plain edge mirror of superior glass ( of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with					
	C.P brass screws and washers Complete	EACH	26.00			0.00
112.00	Providing and fixing toilet paper holder C.P. Brass	EACH	3.00			0.00
113.00	Providing and fixing plain bend of required degree 100mm Sand cast iron S&S as per IS 1729	EACH	3.00			0.00
114.00	Providing & fixing PTMT shelf 440 mm long,124 mm width and 36 mm height of approved quality and colour,weighing not less than 300gms	EACH	23.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
	<b>CHAPTER - 18 : WATER SUPPLY</b>					
115.00	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. (internal work) : Exposed on wall					
115.01	15mm nominal bore.	METRE	380.00			0.00
115.02	20mm nominal bore.	METRE	130.00			0.00
115.03	25mm nominal bore	METRE	70.00			0.00
115.04	32mm nominal bore	METRE	4.00			0.00
115.05	40mm nominal bore	METRE	4.00			0.00
115.06	50 mm dia nominal bore	METRE	3.00			0.00
116.00	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. (external work).					
116.01	15mm nominal bore.	METRE	165.00			0.00
116.02	20mm nominal bore	METER	120.00			0.00
116.03	25mm nominal bore	METER	27.00			0.00
116.04	32mm nominal bore	METER	4.00			0.00
116.05	40mm nominal bore	METER	6.00			0.00
116.06	50mm nominal bore	METER	6.00			0.00
117.00	Providing and fixing brass bib cock of approved quality :15mm nominal bore.	EACH	105.00			0.00
118.00	Providing and fixing brass stop cock of approved quality :					
118.01	15mm nominal bore.	EACH	60.00			0.00
118.02	20mm nominal bore.	EACH	10.00			0.00
119.00	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screw end) :					
119.01	20 mm nominal bore	EACH	25.00			0.00
119.02	25 mm nominal bore.	EACH	18.00			0.00
119.03	40 mm nominal bore.	EACH	2.00			0.00
119.04	50 mm nominal bore.	EACH	2.00			0.00
120.00	Providing and fixing ball valve (Brass) of approved quality complete : High or low pressure with plastic floats					
120.01	15mm nominal bore	EACH	34.00			0.00
121.00	Providing and fixing unplasticised P.V.C. connection pipe with brass unions : 45 Cm length - 15 mm nominal bore	EACH	100.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
122.00	Providing and fixing C.P. Brass shower rose with 15 or 20mm inlet: 100mm diameter.	EACH	6.00			0.00
123.00	Providing lead caulked joints to spun iron pipes and specials including testing of joints but excluding the cost of pig lead.					
	150mm diameter pipe	EACH	6.00			0.00
124.00	Supply pig lead / Lead Wool at site of work.	Qtl.	0.40			0.00
125.00	Painting G.I.pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality:					
125.01	40mm diameter pipe.	METRE	2.00			0.00
125.02	50mm diameter pipe.	METRE	2.00			0.00
126.00	Providing and filling sand ( fine sand) of grading zone v orcoarser grade alround the G.I. Pipes in external work.					
126.01	40mm diameter pipe.	METRE	2.00			0.00
126.02	50mm diameter pipe.	METRE	2.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
127.00	Providing and fixing C.P.Brass bib cock/stop cock /angle cock of approved quality 15 mm nominal bore	EACH	7.00			0.00
128.00	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore	EACH	6.00			0.00
129.00	Cutting holes upto 30x30cm in walls including making good the same: With Common Burnt Clay F.P.S.( Non Modular ) Bricks.	EACH	15.00			0.00
130.00	Cutting holes upto 15cm x 15cm in R.C.C.floors and roofs for passing drain pipe etc. and repairing the holes after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20mm nominal size)including finishing complete so as to make it leak proof.	EACH	5.00			0.00
131.00	Making chase upto 7.5 X 7.5 cm in walls including making good and finishing with matching surfaceafter housing pipes etc.	METRE	22.00			0.00
132.00	Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dresses stone having no side less than 15 cm with minimum depth of 20 cm including preparing the bedding surface etc all complete ( Payment for stone to be made seperatly)	Sq.M	2.00			0.00
133.00	Providing and fixing PTMT bib cock of approved quality and colour 15 mm nominal bore,86 mm long,weighing not less than 88gms	Each	450.00			0.00
134.00	Providing and fixing PTMT stop cock of approved quality and colour 15 mm nominal bore,86 mm long,weighing not less than 88gms	Each	125.00			0.00
135.00	Providing and fixing PTMT pillar cock of approved quality and colour 15 mm nominal bore,107 mm long,weighing not less than 110 gms	Each	125.00			0.00
136.00	Providing and fixing PTMT grating of approved quality and colour Circular type 100 mm nominal dia	Each	3.00			0.00
137.00	Providing & fixing PTMT Ball cock of approved quality,colour and make complete with Epoxy coated aluminium rod with L.P./H.P.H.D.plastic ball 15 mm nominal bore,105 mm long,weighing not less than 138 gms	Each	450.00			0.00
138.00	Providing & fixing PTMT swivelling shower,15 mm nominal bore,weighing not less than 40 gms	Each	51.00			0.00
139.00	Providing & fixing unplasticised PVC connection pipe with PTMT nuts, collar and bush of approved quality and colour 15 mm nominal bore with 45 cm length	Each	450.00			0.00
<b>CHAPTER - 19 : DRAINAGE</b>						
140.00	Providing, laying & jointing glazed stoneware pipe class SP - 1 with stiff mixture of cement mortar in the proportion of 1:1(1 cement:1 fine sand) including testing of joints etc. complete: 100 mm dia	METRE	2.00			0.00
141.00	Providing and laying cement concrete 1:5:10(1 cement:5 Coarse sand:10 graded stone aggregate 40mm nominal size)around S.W.pipes including bed concrete as per standard desing: 100mm diameter S.W.pipe.	METRE	2.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
142.00	Constructing brick masonry manhole in cement mortar 1:4 (1 cement:4 coarse sand) R.C.C. top slab with 1:2:4mix (1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement:4 coarse sand:8 graded stone aggregate 40 mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement:3 coarse sand):Finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement:2 coarse sand:4graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design:					
142.01	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame(Light duty) 455x610 mm internal dimensions total weight of cover andframe to be not less than 38 kg (weightof cover 23 kg and weight of frame 15 kg). With F.R.S. bricks.	EACH	2.00			0.00
143.00	Providing & fixing square mouth S.W. gully trapclass SP -1 complete withC.I. Grating brick masonry chamber with water tight CI cover with frameof 300X300 mm size (inside) the weight of cover to be not less than 4.50kg and frame to be not less than 2.70 kg as per standard design					
143.01	100X100 mm size P Type with Common burnt clay FPS( Non Modular ) bricks of class designation 7.5	EACH	2.00			0.00
<b>CHAPTER - 21 : ALUMINIUM WORK</b>						
144.00	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standrad tublar section /Z section and other sections of approved make confirming to IS:733 and IS:1285,anodised transparents or dyed to required shade according to IS:1868.(Minium anodic coating of grade AC 15) fixed withdash fastners of required dia and size including necessary filling up the gaps at junctions at top,bottom and sides with required EDPM rubber/ PVC /neoprene felt etc. Aluminium sections shall be smooth, rust free, straight mitred and jointed mechanically wherever required including cleat angle,Aluminium snap beading for glazing/panelling C.P. brass/stainless steel screws all complete as per Architectural drawings and the directions of Engineer- in- charge.(Glazing , panelling and dash fasteners to be paid for separately)					
144.01	For fixed portion.	KG	250.00			0.00
144.02	For shutters of doors, windows and ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of EDPM Rubber/neoprene gasket required ( Fittings shall be paid separately)	KG	170.00			0.00
145.00	Providing and fixing glazing in aluminium door,window, ventilator shutters and partitions etc. with EDPM Rubber/neoprene gasket etc. complete as per the structural drawings and the direction of Engineer-in-charge.(cost of aluminium snap beading shall be paid in basic item.)					
145.01	i) With float glass panes 4 mm thickness	Sq.M	11.00			0.00
145.02	With float glass panes of 5.50mm thickness	Sq.M	42.00			0.00



New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
146.00	Providing and fixing double action hydraulic floorspring of approved brand and manufacture IS : 6315 ,having brand log embossed on the body/plate with double spring mechanism and door weight up to 125 kg for doors including cost of cutting floors , embedding in floors as required and making good the same matching to the existing floor finishing and coverplates with brass pivot and single piece M.S. Sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.					
146.01	With Stainless Steel cover plate minimum 1.25 mm thickness	EACH	20.00			0.00
147.00	Providing and fixing 12 mm thick frame less toughened glass dorr shutter/ shelf etc. of approved brand manufacturer including providing and fixing top and bottom pivot and spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Enginee In charge	Sqm	6.00			0.00
148.00	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	EACH	20.00			0.00
<b><u>CHAPTER - 22 : WATER PROOFING</u></b>						
149.00	Grading roof for water proofing treatment with					
149.01	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cu.M	3.00			0.00
149.02	Cement mortar 1:3 (1 cement : 3 coarse sand)	Cu.M	2.00			0.00
150.00	Providing & laying in situ five courses of water proofing treatment with APP (Atactic Polypropylene) modified Polymeric membrane membrane over roofs consisting of first coat of bitumen primer @ 0.40 Kg per sqm, 2nd & 4th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS:702, 3rd layer of membrane APP Modified Polymeric memberane 2.0mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 100 micron (min.) HMHDPE film sandwiched on both sides with polymericmix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 5th, the top most layer shall be finished with brick tiles of class esignated 10 grouted with cement mortar 1:3( 1Cement : 3 Fine Sand)finished neat ( Item of Laying Bricks tiles shall be paid for seperately)	Sq.M	3.00			0.00
NON - SCHEDULE ITEMS ( OPERATIONAL ITEMS )						
<b><u>CARPENTARY WORKS</u></b>						
151.00	Petty repairs to door / window by repairing the wooden parts / wire mesh /tightening of screws,edge-straightening / wiremesh tightening / adjusting the fittings and hinges as the case may be, etc. for smooth operation of the shutters complete as per site requirement.( Payment shall be made for each door or Window irrespective of no of shutters.)	EACH	4500.00			0.00
152.00	Replacement/fixing / refixing door/window shutter including removing oldshutterand fittings wherever required , refixing of old fittings to the new shutter, adjusting theshutter by cutting, plaining / easing / oiling for smooth functioning complete.(Payment shall be made for each door / window irrespective of the the Nos. of shutters )	EACH	350.00			0.00
153.00	Providing and fixing galvanized M.S. Wire gauze of average width of aperture 1.4mm with wire of 0.63mm dia to door/window etc.complete including taking out the old wire gauge and providing new nails,wooden beading wherever necessary.	Sq.M	650.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
154.00	Removing/ Replacing the old chowkhat with new chowkhat and removing & refixing the old / removed shutters from the old chowkhat to the new chowkhat with new screws / hinges by welding M.S. hinges where necessary and repairing the jambs and reveals with cement mortar 1:4 (1 Cement : 4 Fine Sand) complete in all respects including Providing and laying cement concrete for hold fasts embedding in cement concrete blocks of 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size). (Cost of woodwork / steel work for new chowkhats, shall be paid separately under relevant items.)					
154.01	a) Door	EACH	35.00			0.00
154.02	b) Window	EACH	25.00			0.00
154.03	c) Ventilator	EACH	6.00			0.00
155.00	Providing and fixing aluminium glass shelf with aluminium frame and 4 mm thick glass of rounded edges complete fixed to wooden cleats with screws.					
155.01	450 x 120 mm	EACH	2.00			0.00
155.02	600 x 120 mm	EACH	4.00			0.00
156.00	Providing and fixing glass of 4 mm thick for glass shelf with rounded edges.					
156.01	450 x 120 mm	EACH	6.00			0.00
156.02	600 x 120 mm	EACH	6.00			0.00
157.00	Fixing / Re-fixing of Glass Shelf / Looking Mirror / Towel Rail like fittings / fixtures / frames by providing wooden pegs (Gitties) / Plastic pegs (Rawl Plugs) with nails / Screws	EACH	110.00			0.00
158.00	Providing and fixing in position 5.5 mm thick (approx.) wired glass of approved make with all accessories in the existing openings at all heights in the plant and non plant buildings including all safety equipments and scaffolding etc., if required.					
158.01	With old Glass supplied by NFL free of cost.	Sq.M	2.00			0.00
158.02	With Glass supplied by Contractor.	Sq.M	2.00			0.00
159.00	Providing and fixing in position toughned/Shatter proof glass of approved make with all accessories in the existing openings at all heights in the plant and non plant buildings including all safety equipments and scaffolding etc., if required.					
159.01	5 mm thick glass	Sq.M	2.00			0.00
159.02	8 mm thick glass	Sq.M	2.00			0.00
160.00	Shifting, removing, fixing of A.C cabinet / frame/coolar at the required location with old available wood of all types of buildings including removing / refixing the window shutters etc. wherever required required complete.					
160.01	Ground floor.	EACH	40.00			0.00
160.02	First floor.	EACH	15.00			0.00
160.03	Ground floor to first floor or first floor to ground floor.	EACH	3.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
161.00	Fixing of safety locks in the doors of residential / non-residential buildings including fixing of hooks by screwing in wooden chowkhats/welding of hooks in steel chowkhats. ( Safety locks, nuts, bolts/screws and hooks shall be supplied free of charge)	EACH	31.00			0.00
162.00	Repair of hydraulic door closer by tightening/loosening the main stud etc. complete.	EACH	56.00			0.00
163.00	Providing and fixing bright finished or/and black enamelled/ C.I.helical door spring RITZ make 555 / 333 or equivalent or P & F CI Coil Spring	EACH	115.00			0.00
164.00	Providing and fixing wooden cleats / stoppers or like for door / windows of size upto 100 x 50 x 40 mm including cost of necessary hinge and screws wherever reqd.	EACH	21.00			0.00
165.00	Fixing the existing wooden pelmets / Curtain Rods on old pegs / by providing new wooden pegs / plasto pegs ( Rawl plugs) with necessary nails / screws	EACH	74.00			0.00
166.00	Providing and fixing wooden brackets of 2nd class Kail / Deodar / Hollack wood or like for cupboards/curtain rods of existing pattern with wooden pegs / rawlplugs, nails screws etc.(Set of 2 brackets )	EACH Set	53.00			0.00
167.00	Providing and fixing M.S. oxidized staple only for aldrop / sliding door bolt/safety hasp & staple.	EACH	6.00			0.00
168.00	Providing 25 X 25 X 25 mm 2nd class kail/deodar/hollock wood / PVC plug including cutting brick work and fixing in cement mortar1:3 (1 cement:3 fine sand) and making good walls etc. (Wood required for making plugs /stoppers pegs etc. may be collected from the availablewooden scrap free of charge)	EACH	33.00			0.00
169.00	Providing and fixing M.S. handles for steel windows 100mm size weight not less than 80 grams 100mm size weight not less than 80 grams	EACH	31.00			0.00
170.00	Providing and fixing towel rail complete with brackets fixed to wooden cleats with C.P.Brass screws. : C.P.Brass towel rail with two C.P.brass brackets 600*20 mm size	EACH	6.00			0.00
171.00	Providing & Fixing 2mm thick rubber strip to doors upto 75mm wide including fixing with 20mm wide Aluminium strip and Nails Screws Complete	METRE	10.00			0.00
172.00	Providing wood work in frames of doors, windows clerestory windows and other frames, wrought framed and fixed in position :					
	Red marndi( Without Kiln Seasoning & Chemical Treatment)	Cu.M	1.50			0.00
173.00	Providing wood work in frames of false ceiling, partitions etc. sawn and put up in position: rate same as door frame					
173.01	Red Marndi wood.( Without Kiln Seasoning & Chemical Treatment)	Cu.M	1.50			0.00
174.00	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled/ bright finished M.S. butt hinges with necessary screws including panelling with second class Red Marandi wood or 12mm thick water proof ply complete.					
174.01	Red Marndi wood - 35 mm thick.(Without Kiln Seasoning & Chemical Treatment)	Sq.M	120.00			0.00
174.02	Red Marndi wood - 30 mm thick.(Without Kiln Seasoning & Chemical Treatment)	Sq.M	14.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
175.00	Providing and fixing glazed shutters for doors, windows & clerestory windows using 4 mm thick glass panes including ISI marked M.S.butt hinges bright finished of required size with necessary screws.  Red Marndi wood - 30 mm thick.(Without Kiln Seasoning & Chemical Treatment)	Sq.M	150.00			0.00
176.00	Providing and fixing wire gauze shutters for doors, windows and clerestory windows using galvanised M.S.wire gauge of average width of aperture 1.4mm with wire of dia of 0.63mm including ISI marked bright finished or/and black enamelled M. S. butt hinges with necessary screws.					
176.01	Red Marndi wood - 35 mm thick.(Without Kiln Seasoning & Chemical Treatment)	Sq.M	60.00			0.00
176.02	Red Marndi wood - 30 mm thick.(Without Kiln Seasoning & Chemical Treatment)	Sq.M	50.00			0.00
	Note for Item No.172 to 176 :- Existing shutters shall be removed from site ,returned to Civil Office Yard and nothing shall be paid for this work.  PLUMBERY WORKS					
177.00	Providing and fixing CP brass pillar cock of 15 mm nominal bore.	EACH	20.00			0.00
178.00	Providing and fixing / replacing SWAN NECK CP brass pillar cock of 15 mm nominal bore for Laboratory Sinks.  l) 3 Way Outlet	EACH	1.00			0.00
179.00	Repair of Brass / CP / PTMT Bib cock/Stop cock by providing & replacing leather/ PVC washer/ Jumper Valve. for : 15 mm nominal bore	EACH	3520.00			0.00
180.00	Repair of Brass / CP / PTMT Pillar cock / Bib cock / Stop Cock etc. by providing & replacing standard brass face with washers for : 15 mm nominal bore	EACH	606.00			0.00
181.00	Repairs and rectifications of Low Level / high level Flushuing Cistern by providing & fixing / replacing spare parts for non-leakages and smooth functioning of the Cistern as under :					
181.01	PVC siphon set complete	EACH	35.00			0.00
181.02	Set of rubber washers.	EACH	12.00			0.00
181.03	PVC Knob / Handle with washers.	EACH	45.00			0.00
181.04	Brass Rod for Ball Cock of 15 mm nominal bore	EACH	2.00			0.00
181.05	PVC Float Ball for Ball Cock of 15 mm nominal bore	EACH	2.00			0.00
181.06	G.I.Flush Pipe 32 mm diameter complete including cutting and making good the walls andfloors wherever required	EACH	5.00			0.00
181.07	Brass Check Nut for Flush pipe of 32 mm dia	EACH	2.00			0.00
181.08	By adjusting Syphon / Ball Cock / Lever Arm / Float ball	EACH	700.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
181.09	By checking and cleaning of sensor based urinals.	EACH	120.00			0.00
182.00	Providing and fixing G.I. chain with G.I. pull.	EACH	2.00			0.00
183.00	Providing & fixing PVC syphon set for 5 to 15 ltr CI automatic flushing cistern.	EACH	2.00			0.00
184.00	Providing and fixing C.P.Brass close hole basin mixer pillar tap of approved quality and make weighing not less than 1970 Grms. :					
184.01	15mm nominal bore of standered back type	EACH	2.00			0.00
185.00	Providing and fixing / Replacing CI / PVC (Heavy duty), P or S Trap for WC seat of size 75-100 mm with necessary material including dismantalling the old damaed piece.	EACH	11.00			0.00
186.00	Providing and fixing C.P. brass waste for sink or wash basin					
186.01	32 mm dia	EACH	120.00			0.00
186.02	40 mm dia	EACH	40.00			0.00
187.00	Providing and fixing C.P. brass waste for stainless steel kitchen sink of size upto 75 X 40 mm with rubber gasket etc. complete set.	EACH	15.00			0.00
188.00	Providing and fixing GI fittings such as Clamp, Plug, Nipple (upto 200 mm long), elbow, tee, socket, union, reducer etc.					
188.01	For 15 mm nominal bore G.I. pipe line.	EACH	1640.00			0.00
188.02	For 20 mm nominal bore G.I. pipe line.	EACH	350.00			0.00
188.03	For 25 mm nominal bore G.I. pipe line.	EACH	130.00			0.00
188.04	For 32 mm nominal bore G.I. pipe line.	EACH	13.00			0.00
188.05	For 40 mm nominal bore G.I. pipe line.	EACH	15.00			0.00
189.00	Fixing of G.I.Pipe lines issued free by NFL (Necessary fittings wherever required to be fixed in laying the pipes shall be arranged by the contractor which shall be paid for separately. Excavation, Cutting chase in walls / floors wherever required shall also be paid separately) Internal / external work					
189.01	15 mm nominal bore	METRE	36.00			0.00
189.02	20 mm nominal bore	METRE	26.00			0.00
189.03	25 mm nominal bore	METRE	2.00			0.00
190.00	Providing and fixing / replacing drain pipe of Sinks / Wash Basins consisting of GI reducer/GI socket and pipe of length 0.6 to 0.8 mtr.					
190.01	32 mm nominal bore.	EACH	2.00			0.00
190.02	40 mm nominal bore.	EACH	2.00			0.00
191.00	Removing chocking of G.I.Distribution line by unscrewing the pipes, removing the chocking by cleaning the pipes and refixing the same :					
191.01	a) 15 mm nominal bore	METRE	28.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
191.02	b) 20 mm nominal bore	METRE	33.00			0.00
192.00	Dismantling geyser of any capacity and closing the water supply linewith necessary plugs and depositing the geyser as per the instructions of Engineer-in-Charge.	EACH	6.00			0.00
193.00	Fixing the geyser upto any litres capacity with necessary pegs and nut bolts and providing water connection from the nearby water line (The fittings like GI nipples, stop cock, GI pipe will be paid separately)	EACH	12.00			0.00
194.00	Providing and fixing Copper or lead connection pipe with brass unions for Gyisers					
194.01	15 mm nominal bore , 450 mm long	EACH	7.00			0.00
194.02	15 mm nominal bore , 600 mm long	EACH	11.00			0.00
195.00	MASONARY WORKS					
195.01	Brick work with available old bricks in Cement Mortar 1 : 6 ( 1 Cement : 6 Fine sand ) , including cleaning i.e.removing mortar from the bricks : In Foundation & Plinth	Cu.M	14.00			0.00
196.00	Brick work with available old bricks in Cement Mortar 1 : 6 ( 1 Cement : 6 Fine sand ) , including cleaning i.e.removing mortar from the bricks : In Superstructure upto floor V level	Cu.M	6.00			0.00
197.00	Providing & laying Flat brick flooring with / without herring bone bond including cement slurry complete in cement mortar 1:4 (1 Cement : 4 FineSand ) with bricks of class designation 75.	Sq.M	20.00			0.00
198.00	Brick on edge flooring with / without herring bone bond, with available old Bricks includingcement slurry and cleaning of bricks complete in cementmortar 1:4 (1 Cement : 4 fine Sand)	Sq.M	15.00			0.00
199.00	Extra for brick flooring laid diagonal herring bone bondor other pattern as specified.	Sq.M	6.00			0.00
200.00	Cement concrete flooring 1:2:4(1 cement:2 coarse sand: 4graded stone aggregate) finished with a floating coat of neat cement including cement slurry,but excluding the cost of nosing of steps etc.complete.					
200.01	25 mm thick with 12.5mm nominal size stone aggregate.	Sq.M	8.00			0.00
200.02	50mm thick with 20mm nominal size stone aggregate.	Sq.M	32.00			0.00
201.00	Marble chips plastering over kitchen platforms rubbed and polished to granolithic finish, top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from smallest to 4 mm nominal size laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume :					
201.01	18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1cement : 3 coarse sand) : Ordinary cement without any pigment.	Sq.M	3.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
202.00	Providing and fixing homogeneous Polyvinyl chloride sheet/tile in flooring and skirting in approved pattern on a smooth and damp proof base using rubber based adhesive of approved quality and manufacturer like dunlop S-758,fevicol SR 998 or equivalent including rolling with light wooden roller weighing about 5 kg. all complete as directed by the Engineer-in-charge in approved colour and shade.					
202.01	2.0mm thick tile. / Sheet	Sq.M	27.00			0.00
203.00	Making small bands ( Bannies ) of size upto 50 x 30 mm and upto 1200 mm long with cement mortar 1 :4 ( 1 Cement :4 Coarse Sand ) near any door entrance	EACH	218.00			0.00
204.00	Repairs to RCC chhajjas of all sizes and thickness including dismantling the damaged portion and redoing the same with cement concrete/ cement mortar, scaffolding, centering, shuttering and finishing complete ( Bottom Size of Chhaja to be measured for payment. Cement consumption shall be 0.10 Quintal / Each Chhaja	EACH	264.00			0.00
205.00	Rectification of seepage from WC, Floor trap etc. including required demolishing of floor, brick walls etc. and making good the same in original condition to make it leak proof. Other items i.e. Sanitary installations shall be paid separately if required. (1/3 bag cement consumption).	EACH	52.00			0.00
206.00	Supplying and mixing Sodium Carbonate ( Washing Soda ) with Cement / Cement mortar / Cement Concrete in the ratio as per site requirement for emergent repairs, as per the instruction of Engineer-in- charge	Kg.	21.00			0.00
	<b>ROOFING WORKS</b>					
207.00	Providing and fixing plain Polypropylene reinforced cement sheet Ceiling of approved quality with necessary nails etc. complete ( Frame work to be paid separately) 6mm thick.	Sq.M	80.00			0.00
208.00	Providing & fixing 2mm thick insulation sheets or FRP (fibre reinforced plastic) roofing and fixing with polymer coated J or L hooks bolts and nuts 8 mm dia. G.I. plain and bitumen washers complete excluding the cost of purlins, rafters and trusses: Corrugated / Plain sheets at all heights					
208.01	Upto 60 degree pitch or on vertical position	Sq.M	70.00			0.00
209.00	Fixing Plain / corrugated GI / AC / FRP / Aluminium etc. sheets at all heights by removing the existing sheets if necessary (only FRP/GI/AC/Aluminium / sheets shall be supplied by department free of cost). Hooks with nuts & bitumen / limpet washers, if required, shall be arranged by Contractor at his cost without any extra claim.	Sq.M	301.00			0.00
210.00	Repair of cracked AC sheets in patches (area of single patch not exceeding 0.50 Sq.M) by fixing old AC Sheet pieces by providing and applying sealing compound wherever required at all heights etc complete	EACH	30.00			0.00
211.00	Providing and fixing 6mm ACC sheet louver ( 1.25 X 1.05 M ) in Cooling Tower including filling the side joints (Adhesive compound and SS Washers nails etc. shall be supplied free by NFL wherever required.)	Sq.M	100.00			0.00
212.00	Providing and fixing 6mm ACC sheet louver upto 350 mm wide, with overlapping upto 200 mm, on the sides of Blower Houses, Compressor Houses or at any other location including replacement of existing double threaded steel studs of 8 mm dia of required length with washers & nuts etc. complete in all respect.	METRE	70.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
213.00	Providing & Fixing / replacing 8 mm dia double threaded steel studs upto 350 mm length with 4 Nos. nuts & washers (Complete Set) for ACC louvers of Blower House / Compressor Houses or at any other location	EACH	20.00			0.00
214.00	Providing and fixing / replacing with polymer coated 'J' or 'L' hook of required size (8 mm Dia) with bitumen / Limpet washers in existing or New ACC / CGI / FRP / Aluminium / RMP sheet roofing in place of GI hooks, at all heights.	EACH	100.00			0.00
215.00	Cleaning and removing chocking form gutters, including removal of debris up to ground, tightening the nuts and bolts and or providing new nuts and bolts washers etc. after removing the old/ damaged nuts/ bolts washers etc. to the supports of gutters .					
215.01	AC/GI or any make gutters of any size at any height	METRE	1000.00			0.00
216.00	Removal of choking in CI / AC rain water pipe, after dismantling the CI / AC bend wherever required and replacing by new one if required and making good the wall / khurra etc. (bend if provided will be paid separately).	EACH	47.00			0.00
217.00	Providing and fixing on wall face unplasticised PVC (Working pressure 4 Kg per sqcm) rain water pipes conforming to IS:4965 including jointing with sealing conforming to IS:5382 leaving 10 mm gap for thermal expansion.					
	160 mm diameter.	METRE	40.00			0.00
218.00	Providing and fixing on wall face unplasticised PVC moulded fittings/accessories for unplasticised PVC rainwater pipes conforming to IS: 4965 including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion. moulded fittings/accessories for unplasticised PVC rainwater pipes conforming to IS: 4965 including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion.					
	Coupler 160mm : Coupler / Bend / Shoe	EACH	5.00			0.00
219.00	Providing & fixing water proof ply on/around fan hoods of cooling/stipping towers or					
219.01	12mm thick marrine / water proof ply	Sq.M	2.00			0.00
219.02	9 mm thick marrine / water proof ply	Sq.M	2.00			0.00
219.03	6 mm thick Commercial Ply	Sq.M	350.00			0.00
219.04	3mm to 4mm thick commercial ply	Sq.M.	101.00			0.00
219.05	3mm to 4 mm thick teak ply	Sq.M.	6.00			0.00
220.00	Labour charges for fixing old available water proof ply /commercial ply in					
220.01	12mm / 9 mm thick	Sq.M	2.00			0.00
220.02	6mm / 4mm thick	Sq.M.	6.00			0.00
	<b>MISCELLANEOUS WORKS</b>					
221.00	Repair of rolling shutters including setting the dislocated M.S.strips by welding	EACH	7.00			0.00
222.00	Repair of collapsible & steel gates by providing necessary accessories like nuts ,	EACH	53.00			0.00
223.00	Fixing / tightening or Repairing IRC, BRC fabric / expanded metal jali /Chain Link	Sq.M	7.00			0.00



New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
224.00	Fixing tightening and repairing of six/nine rows of barbed wirefencing having					
224.01	Six rows / Fencing on top of Boundry Wall	METRE	800.00			0.00
224.02	Nine rows / 'Y'fencing at top of boundry wall	METRE	310.00			0.00
224.03	Extra charges for providing new MS barbed wire at missing locations / replacing the	Kg	430.00			0.00
225.00	Cutting of grills of windows for fixing of A.C. / Desert Coolers or fixing of available	EACH	34.00			0.00
226.00	Repair/maintenane of Aluminium doors in control rooms or other places at all heights including replacement of cap Washers of hinges, oil seals of floor doorsprings, greasing fixing of damaged / missing rubber/neoprene Gasket etc. replacement of damaged / missing aluminium snap beeding,removal and installation of shutters if required to make it in good working condition complete in all respects as per the direction of Engr-in-charge( Rubber/neoprene gasket and Aluminium snap beeding shall be paid seperately,but nothing extra shall be paid for the minor replacements.)	EACH	110.00			0.00
227.00	Tracing and plugging of leakage point in underground pipe lines of GI/MS/CI/RCC/SW pipes etc.by providing and fixing wooden plugs, MSsockets/Cement mortar joints etc. and with necessary welding as per site requirement. (Dismantling of RCC/WBM /Premix, excavation, and mass cement concrete including installation of pump for dewatering &making good the surface by back filling and compaction etc. shall be paid separately in relevant items of schedule). Electricity for welding shall be supplied free of cost, if required.					
227.01	For dia of pipe upto 100 mm	EACH	16.00			0.00
227.02	For dia of pipe from 101 mm to 300 mm	EACH	21.00			0.00
227.03	For dia of pipe from 301 mm & Above	EACH	2.00			0.00
228.00	Cleaning of storm water/open surface kutcha/pucca drains, Channelsand culvert by removing grass, vegetation, slush mud, rubbish, brick bats, thermocoal, aggregate, rotten cloth,pieces of bamboo/ballies, empty drums,precast slabs, etc.and transporting the same upto a lead ofone K.M. ( I.e anywhere within the plant or Township ) in a low lying areas and exposing pucca surface of the drains neatly as per instructions of Engineer-inIncharge.If depth of silt / ash / carbon is more than 0.3M the cleaning will be paid in Cu.M under respective item of SOQ					
228.01	For depth of drain upto 500 mm	METRE	1000.00			0.00
228.02	For depth of drain from 501 mm to 1000 mm	METRE	2501.00			0.00
228.03	For depth of drain above 1000 mm	METRE	3.00			0.00
229.00	Cleaning of silt / Muck / sludge from the drains / intake raw waterchannel /or any other drain / channel with all lifts , and dumping the same upto a lead of 50 Metres as per site requirement.	Cu.M	2.00			0.00
230.00	Excavation of dry / deposited Ash / Carbon in trenches, drains or in open areas Including lift upto 1.5 mtr. and faredy dressing the area complete With a lead upto 100 Metres	Cu.M	15.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
231.00	Carriage and Filling in plinth with sand / Ash under floors including, watering, ramming, consolidating and dressing complete with in NFL permises( Sand/Ash shall be supplied by NFL free of cost)	Cu.M.	3.00			0.00
232.00	Cleaning of overhead tanks on top of roof of Residential/Public buildings including draining out water, removal of algi, cleaning of sides and bottom of the tank complete.	EACH	22.00			0.00
233.00	Hiring charges for arranging dewatering diesel pump with necessary suction and delivery pipes for dewatering any type of water through broken water mains etc. including operator. (payment for full day i.e. 8 hours shall be made for the 1st day. Subsequently, payment for the same shall be made on hourly basis for which the pump is run/operated for particular job. Diesel is to be arranged by the Contractor at his own cost). Pump of capacity 5 H.P.(minimum) with suction / delivery of 50mm dia (minimum).	Working Day	72.00			0.00
234.00	Hiring charges for welding set with one welder, welding rods and leads for doing any petty welding job (with free electricity connection and power) (payment for full day i.e. 8 hours shall be made for the 1st day. Subsequently, payment for the same shall be made on hourly basis for which the welding set is run/operated for particular job. to be arranged by the Contractor at his own cost). . Fuse box and switch starter with covered stand shall be arranged by Contractor.	Working Day	60.00			0.00
235.00	Hiring charges for tractor with Operator, Diesel / Oil and accessories like Plougher / Harrower / Trolley, etc. for ploughing/harrowing the ground (Payment shall be made for working hours only)	Per Hour	700.00			0.00
236.00	Hiring charges for JCB ( Mechanical Excavator ) with Operator, Diesel / Oil for urgent excavation / dozing (payment for full day i.e. 8 hours shall be made for the 1st day. Subsequently, payment for the same shall be made on hourly basis for which JCB is run/operated for particular job. to be arranged by the Contractor at his own cost).	Working Day	75.00			0.00
237.00	Hiring charges for JCB Breaker with Operator, Diesel / Oil for urgent heavy RCC foundations /structures dismantling (payment for full day i.e. 8 hours shall be made for the 1st day. Subsequently, payment for the same shall be made on hourly basis for which JCB Breaker is run/operated for particular job. to be arranged by the Contractor at his own cost).	Working Day	3.00			0.00
238.00	Hire charges of Road Roller - 8 to 10 tonne capacity with Operator, Diesel / Oil for urgent compaction jobs (payment for full day i.e. 8 hours shall be made for the 1st day. Subsequently, payment for the same shall be made on hourly basis for which roller is run/operated for particular job. to be arranged by the Contractor at his own cost).	Working Day	3.00			0.00
239.00	Removing RCC precast slabs/ greating covers for repairing / cleaning of drains/cable trenches and replacing the same in positions if required as per direction of Engineer-in-Charge.					
239.01	Slabs of span upto 0.50 Metre	EACH	90.00			0.00
239.02	Slabs of span upto 1.00 Metre	EACH	510.00			0.00
239.03	Slabs of span upto 2.00 Metre or more	EACH	171.00			0.00
240.00	Grinding the existing Marble stones / Mosaic floors, skirting, dados ,platform , or any other area manually or by machines including finishing, polishing complete ( The grinding stone, machine, polish & detergents will be arranged by the contractor at his cost					

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
	Ordinary finish /Diamond Finish	Sq.M.	140.00			0.00
241.00	Providing, embedding and fixing small pieces of broken glass in Cement mortar 1 : 3 on top of Boundary wall to its entire width ( Glass pieces to be collected from scrap. Cement Mortar shall be paid separately under respective item of SOQ.)	METRE	2.00			0.00
242.00	Supplying empty cement bags filled with earth / Ash and placing in position including all lifts and leads in or under water (Available earth / Ash from near by location shall be used)	EACH	4001.00			0.00
243.00	Cutting /uprooting/removal of breedings of people trees/ or any other saplings / breedings from top of roof/side walls or any other area and disposal of the same	EACH	2150.00			0.00
244.00	Providing & Fixing Sun Control Film ( Garware or equivalent make ) in required shade and colour including cleaning etc. complete on window / door / partition glass panes.	Sq.M.	6.00			0.00
245.00	Jointing old bricks work in F.P.S. system with new brick work in cementmortar 1:4 (1 cement: 4 coarse sand ) in metric system.	Sq.M	3.00			0.00
246.00	Execution of any job non-susceptible to measurement which includes all minor consumable material, tools and tackles and the payment shall be on basis of working hours (Major consumable / material shall be supplied by NFL and the decision of the Engineer-in-Charge in this regard shall be final.)					
246.01	Skilled ( Mason / Carpenter / Plumber / Technician / Office Staff etc.)	Working Day	1566.00			0.00
246.02	Unskilled.	Working Day	1800.00			0.00
247.00	White washing / painting of trees with lime/exterior emulsion with one or more coats upto 1 meter height and girth upto 0.75 meter.					
247.01	With lime wash	EACH	1430.00			0.00
247.02	With Apex or equivalent exterior paint as approved by Engr in charge	Each	520.00			0.00
248.00	Painting the flower pots of all sizes with readymix/ enamel paint in all shades to give a smooth finish : Old or New Pots	EACH	310.00			0.00
249.00	Painting the flower pots of all sizes with exterior emulsion paint in all shades : Old or New pots	EACH	110.00			0.00
250.00	Making arrangements for preparation of ground , stage, approach path etc for various functions by : Painting the Flag Post, Flag stage, welcome gates, cemented kerbs on the berms of welcome gates, Structural poles & Chains, with one coat of enamel paint of required shade, transporting the poles / chains / other materials from NFL's stores to site of work, fixing the poles by excavating holes, marking the lines with lime around the stage, spreading sand on the approach path of stage, Dismantalling of the posts & Chains after the function and depositing the same in NFL's store complete	EACH JOB	3.00			0.00
251.00	Laying Brick Teeth Edging with available brick by laying the dry bricks one over the other at an angle of approx. 30 deg. Including necessary excavation, backfilling, spreading the surplus earth, and providing required no. of coats with white wash complete. ( Bricks shall be supplied free by NFL)	METRE	70.00			0.00
252.00	Supplying of different materials at site for organising the official functions / ceremonies / emergent repairs etc. :					

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
252.01	White lime	Kg	2000.00			0.00
252.02	Surkhi ( GERU )	Kg	71.00			0.00
252.03	2nd Class bricks ( Class designation 50)	Each	1500.00			0.00
252.04	Dam-it of M/s STP Make	Kg	3.00			0.00
252.05	Sealing Compound of M/s STP	Kg	3.00			0.00
252.06	Self Adhesive Flash Strip size 10 Mtr. X 100 mm of M/s STP	Each	11.00			0.00
252.07	Rolling shutter spring 27.05 cm long wire spring grade no. 2	Each	6.00			0.00
252.08	Crushed stone 2.36 mm to 12.5 mm size	Cum	10.00			0.00
252.09	Self-Drilling/Self-Tapping Screws M-6 25mm long	Each	1000.00			0.00
252.10	M-60 grade cementitious grout (Non Shrink) / Micro-concrete of make (SIKA/FOSCRON)	Kg	2000.00			0.00
252.11	Roof Waterproofing compound of make (Birla/Pidilite)	Kg	90.00			0.00
253.00	Hacking R.C.C./P.C.C. surface for roughening to get a good bond including disposal of rubbish (Any where in NFL Complex )	Sq.M	60.00			0.00
254.00	Chipping of plain cement concrete or R.C.C. upto 10 mm depth on floors, walls, roofs, columns pillars for exposing reinforcement or for roughening the area at all heights and depths.	Sq.M	16.00			0.00
255.00	Making pockets in R.C.C. or P.C.C. upto 200 mm depth/with size of pockets upto 150x150 mm on vertical / Horizontal surfaces at all heights & depths complete including making good wherever required.	EACH	26.00			0.00
256.00	Making pockets, in bricks work in cement mortar, upto 200mm depth with size of pocket upto 200x200 mm on vertical / Horizontal surface at all heights & depth complete including making good wherever required.	EACH	31.00			0.00
257.00	Providing and fixing / replacing following fittings / fixtures of Aluminium Doors / Windows :					
257.01	Aluminium Snap Beading	Metre	201.00			0.00
257.02	Rubber Gaskets	Metre	41.00			0.00
258.00	Surveillance of old ash ponds near Factory Areas , by keeping watch and ward of the earthen dykes to safe guard them from any damage due to flow of Ash Slurry/Water in the Pond or pilferage of earth and cutting of trees etc. Patrolling of Ash Slurry line from Factory to Ponds and intimating regarding the leakages in Ash slurry lines twice a day. Surveillance shall be carried out daily from 8.00AM to 5.00 PM,	Per Month	12.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
259.00	Strengthening the embankment of ash ponds at village Dahar and / or old ponds on North of NFL Plant or at any location in Factory/ Township area by supplying good earth (at required location of earthen embankments of the ponds) from any lead and lift including excavation carriage, loading/unloading and royalty etc., banking the earth in layers not exceeding 20 Cm. in depth breaking clods, watering and ramming each layer with wooden or steel rammers on top and sides of the dyke to fill up the rat / snake holes, ruts and gully formations etc. and dressing up the embankment including all leads and lifts as per the directions of engineer in charge. (The earth supplied shall be measured in stacks and shall be reduced by 20% towards voids for payment purpose.)	Cu.M.	40.00			0.00
260.00	Excavation of ash with in the Ash Ponds intrenches/drains including getting out excavated Ash lift upto 1.50 Mtr. and lead upto 50 Mtr., dressing of the excavated / disposed off ash wherever required, complete as per directions of Engineer-in-Charge	Cu.M.	900.00			0.00
261.00	Extra charges for doing all types of concrete/brick work inside of loal / urea conveyer galleries and in LSHS (Oily surface), Final Effluent Ponds / Pump House areas, on or within ash ponds, Carbon Ponds or any other unapproachable area where head lead is more than 50 mtrs. including making proper approach by cleaning / preparation of surface etc. complete.	CUM	1.00			0.00
262.00	Fine dressing of ground	Sq.M	2500.00			0.00
263.00	Operation and maintenance of sewage / Dewatering pumps installed in Township Sump Pump House and Pumps installed at culvert No. 120 near Railway under bridge crossing on Township Road, for pumping out the sewage to ETP in Plant Area / effluents to Ash Ponds respectively by priming / operating the sluice valves etc., operating the dewatering pump for dewatering the leaked water from pumps & sluice valves installed in the pump house and minor maintenance of pumps and sluice valves such as oiling and greasing of pumps as per instruction of Engineer in charge.					
	SEWAGE PUMP HOUSE					
263.01	The operation shall be carried out between 6.00 am to 2.00 pm & 2.00pm to 10.00 pm daily.	PER MONTH	12.00			0.00
263.02	Extra for additional shift for Item No. 1 (a) Shift from 10.00 PM to 6.00 AM	Per Shift	24.00			0.00
264.00	PUMPS INSTALLED AT CULVERT No. 120					
264.01	The operation shall be carried out for one shifts i.e. from 8.00 am to 5.00 pm daily.	PER MONTH	12.00			0.00
264.02	Extra for additional shift for Item No. 2 (a) Shift from 5.00 PM to 8.00 AM	Per Shift	30.00			0.00
265.00	Providing and laying 100mm thick factory made cement concrete interlocking paver block (ISI Marked) of M-35 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	150.00			0.00

New S. No.	DESCRIPTION OF ITEM	UNIT	Quantity	Per Unit Rate		AMOUNT (Rs.)
				In Figure	In Word	
266.00	Providing services for the spacialized jobs from the reputed architect/ interior designer/ architectural agency who are in this business. The services may include the site visit, discussion, preparing of drawings/ supervision and regarding the selection of colour, shade, size of fittings/ fixtures/ interior design etc., whichever required. For the purpose of payment the billed value raised by the expert/architect etc. for providing such service , supported by cash receipt / vouchers shall be considered against this item.	Per visit	10.00			0.00
<b>Total</b>						<b>0.00</b>