

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
EARTH WORK				
1	Earth work in surface excavation not exceeding 30cm in depth but exceedign 1.5 m in width as well as 10sqm on plan including disposal of excavation earth upto 50m and lift upto 1.5m, disposal soil to be levelled and neatly dressed:			
1.1	All kinds of soil	sqm	2073.60	
2	Earth work in excavation by mechanical means (hydraulic excavator) manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.			
2.1	All kinds of soil	cum	101.85	
3	Earth work in excavation by mechanical means (hydraulic excavator) manua means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.			
3.1	Ordinary rock	cum	152.60	
3.2	Hard rock (requiring blasting)	cum	252.20	
3.3	Hard rock (blasting prohibited)	cum	325.25	
4	Excavation work in foundation trenches or drains not exceedign 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift up to1.5m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.			
4.1	Ordinary rock	cum	162.65	
4.2	Hard rock (requiring blasting)	cum	272.95	
4.3	Hard rock (blasting prohibited)	cum	332.45	
5	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,.	cum	45.70	
6	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			
6.1	All kinds of soil	100 sqm	512.10	
7	Clearing jungle including uprooting 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.	100 sqm	263.90	
8	Clearing grass and removal of the rubbish up to a distance of 50m outside the periphery of the area cleared.	100 sqm	135.65	
9	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.			
9.1	Beyond 30cm girth upto and including 60cm girth	each	81.70	
9.2	Beyond 60cm girth upto and including 120cm girth	each	359.80	
9.3	Beyond 120cm girth upto and including 240cm girth	each	1658.85	
9.4	Above 240cm girth	each	3330.20	
10	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti termite treatment (excluding the cost of chemical emulsion)			
10.1	Along external wall where the apron is not provided using chemical emulsion @ 7.5 ltr / sqm of the vertical including excavation channel along the wall and rodding etc. complete			
10.1.1	with chlorpyriphos/ lindane E.C 20% with 1% concentration	sqm	6.75	
10.2	Nil			

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10.3	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 Ltr per linear mtr including drillinng and plugging holes etc.			
10.3.1	with chlorpyriphos/ lindane E.C 20% with 1% concentration	sqm	10.45	
10.4	Nil			
10.5	treatment of soil under existing floors using chemical emulsion @ one ltr per hole, 300 mm apart including drilling 12mm diameter holes and plugging with cement mortar 1:2 (1cement 2 coarse sand) to match the existing floor			
10.5.1	with chlorpyriphos/ lindane E.C 20% with 1% concentration	sqm	48.70	
10.6	Nil			
10.7	Treatment of exising masonry using chemical emulsion @ one ltr per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2(1cement 2 coarse sand) to the full depth of the hole			
10.7.1	with chlorpyriphos/ lindane E.C 20% with 1% concentration	mtr	7.60	
10.8	NIL			
10.9	Treatment at points of contact of wood work by chemical emulsion chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5 ltr per hole by drilling 6mm dia holes at downward angle of 45 degree at 150mm centre to centre and sealing the same	mtr	79.80	
10.1	Treatment at points of contact of wood work by chemical emulsion chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5 ltr per hole by drilling 6mm dia holes at downward angle of 45 degree at 150mm centre to centre and sealing the same	mtr	13.85	
11	Earth work excavation in slushy soils including removing the sewage water and scum from the pit of broken sewer lines,man holes, chambers etc., to enable building new ones (sewage gangman are to be engaged if necessary) etc., complete all as directed by Engineer-in-charge.(while excavating care should be taken about cables and shall intimate to Electrical Department/ Telephones Department to take care of the cables).	One Cum	152.77	
CEMENT MORTAR WORKS*				contractor profit not given in DSR
12	Cement mortar 1:1(1 cement 1 fine sand)	cum	465.70	Cement / Steel will be issued free of cost from BHEL Stores
13	Cement mortar 1:2(1 cement 2 fine sand)	cum	538.25	Cement / Steel will be issued free of cost from BHEL Stores
14	Cement mortar 1:3(1 cement 3 fine sand)	cum	575.00	Cement / Steel will be issued free of cost from BHEL Stores
15	Cement mortar 1:4(1 cement 4 fine sand)	cum	568.85	Cement / Steel will be issued free of cost from BHEL Stores
16	Cement mortar 1:5(1 cement 5 fine sand)	cum	565.55	Cement / Steel will be issued free of cost from BHEL Stores
17	Cement mortar 1:6(1 cement 6 fine sand)	cum	562.70	Cement / Steel will be issued free of cost from BHEL Stores
18	Cement mortar 1.2 (1 cement 2 coarse sand)	cum	804.25	Cement / Steel will be issued free of cost from BHEL Stores
19	Cement mortar 1.3 (1 cement 3 coarse sand)	cum	874.60	Cement / Steel will be issued free of cost from BHEL Stores
20	Cement mortar 1.4 (1 cement 4 coarse sand)	cum	868.45	Cement / Steel will be issued free of cost from BHEL Stores
21	Cement mortar 1:5 (1 cement 5 coarse sand)	cum	865.15	Cement / Steel will be issued free of cost from BHEL Stores
22	Cement mortar 1.6 (1 cement 6 coarse sand)	cum	862.30	Cement / Steel will be issued free of cost from BHEL Stores
23	Cement mortar 1:2(1 cement 2 stone dust)	cum	899.25	Cement / Steel will be issued free of cost from BHEL Stores

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BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
24	Cement mortar 1:2(1 cement 2 marble dust)	cum	994.25	Cement / Steel will be issued free of cost from BHEL Stores
25	Cement mortar 1:2(1 cement 5marble dust)	cum	1079.15	Cement / Steel will be issued free of cost from BHEL Stores
26	White cement mortar 1:2(1 white cement 2 marble dust)	cum	7590.25	
27	White cement mortar 1:3(1 white cement 3 marble dust)	cum	6035.60	
28	White cement mortar 1:5(1 white cement 5 marble dust)	cum	4086.15	
29	Mud mortar	cum	156.85	
CEMENT CONCRETE WORKS				
30	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering- All work upto plinth level			
30.1	1:1:2 (1cement 1coarse sand 2 grade stone aggregate 20mm nominal size)	cum	1554.75	Cement / Steel will be issued free of cost from BHEL Stores
30.2	1:1 1/2:3(1 cement 1 ^{1/2} coarse sand :3 graded stone aggregate 20mm nominal size)	cum	1541.80	Cement / Steel will be issued free of cost from BHEL Stores
30.3	1:2:4 (1cement 2:coares sand 4 grade stone aggregate 20mm nominal size)	cum	1587.05	Cement / Steel will be issued free of cost from BHEL Stores
30.4	1:2:4 (1cement 2:coares sand 4 grade stone aggregate 40mm nominal size)	cum	1523.70	Cement / Steel will be issued free of cost from BHEL Stores
30.5	1:3:6 (1cement 3:coares sand 6 grade stone aggregate 20mm nominal size)	cum	2045.70	Cement / Steel will be issued free of cost from BHEL Stores
30.6	1:3:6 (1cement 3:coares sand 6 grade stone aggregate 40mm nominal size)	cum	1564.65	Cement / Steel will be issued free of cost from BHEL Stores
30.7	1:3:6 (1cement 3:coares sand 6 grade stone aggregate 40mm nominal size)	cum	1411.80	Cement / Steel will be issued free of cost from BHEL Stores
30.8	1:4:8 (1cement 4:coares sand 8 grade stone aggregate 40mm nominal size)	cum	1561.60	Cement / Steel will be issued free of cost from BHEL Stores
30.9	1:4:8 (1cement 4:coares sand 8 grade stone aggregate 40mm nominal size)	cum	1408.75	Cement / Steel will be issued free of cost from BHEL Stores
30.1	1:5:10 (1cement 5:coares sand 10 grade stone aggregate 40mm nominal size)	cum	1559.15	Cement / Steel will be issued free of cost from BHEL Stores
30.11	1:5:10 (1cement 5:fine sand 10 grade stone aggregate 40mm nominal size)	cum	1401.00	Cement / Steel will be issued free of cost from BHEL Stores
30.12	1:2:3,1/2:4:11(1 ordinary portland cement :2Fly ash :3, 1/2 coarse sand :9 graded stone aggregate 40mm nominal size).	cum	1501.05	Cement / Steel will be issued free of cost from BHEL Stores
30.13	1:2:3,1/2:4:11(1 ordinary portland cement :2Fly ash :3, 1/2 coarse sand :9 graded stone aggregate 40mm nominal size).	cum	1475.85	Cement / Steel will be issued free of cost from BHEL Stores
31	Providing and laying cement concrete in retaining walls return walls (any thickness) including attached pilasters, columns piers abutments pillars posts struts buttresses string or lacing courses parapets coping bed blocks anchor blocks plain window sillis fillets etc. upto floor five level excluding the cost of centering shuttering and finishing :			
31.1	1:1:2 (1cement 1coarse sand 2 grade stone aggregate 20mm nominal size)	cum	1876.40	Cement / Steel will be issued free of cost from BHEL Stores
31.2	1:1 1/2:3(1 cement 1 ^{1/2} coarse sand :3 graded stone aggregate 20mm nominal size)	cum	1863.45	Cement / Steel will be issued free of cost from BHEL Stores
31.3	1:2:4 (1cement 2:coares sand 4 grade stone aggregate 20mm nominal size)	cum	1908.70	Cement / Steel will be issued free of cost from BHEL Stores
31.4	1:2:4 (1cement 2:coares sand 4 grade stone aggregate 40mm nominal size)	cum	1845.35	Cement / Steel will be issued free of cost from BHEL Stores
31.5	1:3:6 (1cement 3:coares sand 6 grade stone aggregate 20mm nominal size)	cum	1964.30	Cement / Steel will be issued free of cost from BHEL Stores
31.6	1:3:6 (1cement 3:coares sand 6 grade stone aggregate 40mm nominal size)	cum	1886.30	Cement / Steel will be issued free of cost from BHEL Stores
31.7	1:3:6 (1cement 3:fine sand 6 grade stone aggregate 40mm nominal size)	cum	1733.45	Cement / Steel will be issued free of cost from BHEL Stores
32	Centering and shuttering including strutting propping etc. and removal of form work for :			
32.1	Foundations , Footings, bases for columns	sqm	119.25	
32.2	Retaining walls, return walls, walls (any thickness) including attached pilasters , buttresses, plinth and string courses fillets etc.	sqm	180.40	

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BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
32.3	Columns piers, abutments, pillars, posts and struts.	sqm	238.40	
33	Providing and fixing upto floor five level precast concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc. including hoisting and setting in position with cement mortar 1:3 (1:cement :3 coarse sand), cost of required centering, shuttering and finishing smoth with 6mm thick cement plaster 1:3 (1cement : 3 fine sand)on exposed surgaces complete.			
33.1	1:2:4(1cement :2 coarse sand :4 graded stone aggrigate 20mm nominal size)	cum	2830.75	Cement / Steel will be issued free of cost from BHEL Stores
33.2	1:3:6(1cement :3 coarse sand :6 graded stone aggrigate 20mm nominal size)	cum	2886.35	Cement / Steel will be issued free of cost from BHEL Stores
34	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1cement 3 coarese sand) including the cost of required centering shuttering and finishing smoth with 6 mm thick cement plaster 1:3 (1 cement :3 fine sand) on exposed surfaces complete.			
34.1	1:2:4(1cement :2 coarse sand :4 graded stone aggrigate 20mm nominal size)	cum	2225.51	Cement / Steel will be issued free of cost from BHEL Stores
REINFORCED CEMENT CONCRETE WORKS				
35	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering shuttering finishing and reinforcement All work up to plinth level			
35.1	1:1:2(1cement 1coarse sand 2 grade stone aggrigate 20mm nominal size)	cum	1656.95	Cement / Steel will be issued free of cost from BHEL Stores
35.2	1:1.5:3(1cement 1.5 coarse sand 3 grade stone aggrigate 20mm nominal size)	cum	1644.00	Cement / Steel will be issued free of cost from BHEL Stores
35.3	1:2:4(1cement 2 coarse sand 4 grade stone aggrigate 20mm nominal size)	cum	1689.20	Cement / Steel will be issued free of cost from BHEL Stores
36	Reinforced cement concrete work in walls (any thickness) including attached pilasters buttresses plinth and string course fillets columns pillars piers abutments posts and struts etc. up to floor five level excluding cost of centering shuttering finishing and reinforcement			
36.1	1:1:2(1cement 1coarse sand 2 grade stone aggrigate 20mm nominal size)	cum	2017.30	Cement / Steel will be issued free of cost from BHEL Stores
36.2	1:1.5:3(1cement 1.5 coarse sand 3 grade stone aggrigate 20mm nominal size)	cum	2004.35	Cement / Steel will be issued free of cost from BHEL Stores
36.3	1:2:4(1cement 2 coarse sand 4 grade stone aggrigate 20mm nominal size)	cum	2049.60	Cement / Steel will be issued free of cost from BHEL Stores
37	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, intels, bands, plain window sills, staircases and spiral strair cases upto floor five level excluding the cost of centering shuttering finishing and reinforcement with 1:2:4(1cement 2 coarse sand 4 grade stone aggrigate 20mm nominal size)	cum	2003.45	Cement / Steel will be issued free of cost from BHEL Stores
38	Providing and laying upto floor five level reinforcement cement concrete in kerbs steps and the like excluding the cost of centering shuttering finishing and reinforcement with 1:2:4(1cement 2 coarses sand 4 grade stone aggrigate 20mm nominal size)	cum	1832.45	Cement / Steel will be issued free of cost from BHEL Stores
39	Centering and shuttering including strutting propping etc. and removal of form work for :			
39.1	Foundations , Footings, bases for columns	sqm	119.25	
39.2	walls (any thickness) including attached pilasters, butteresses plinth and string courses etc.	sqm	180.40	
39.3	Suspended floors roofs, landing balconies and access platform	sqm	187.35	
39.4	Shelves (cast in situ)	sqm	187.35	
39.5	Lintels, beams, plinth beams, girderss, bressumenrs and cantilevers.	sqm	162.65	
39.6	Columns piers, abutments, pillars, posts and struts.	sqm	238.40	
39.7	Stairs, (excluding landing) except spiral stairacases	sqm	204.00	
39.8	Spiral staircase (including landing)	sqm	182.70	
39.9	Arches, domes, vault up to 6m span	sqm	514.70	

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BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
39.1	Extra for arches, domes, vault exceeding 6m span	sqm	259.60	
39.11	Chimneys and shafts	sqm	147.15	
39.12	Well steining	sqm	326.50	
39.13	Vertical and horizontal fines individually or forming box louvers band, fascias and eaves boards.	sqm	285.55	
39.14	Extra for shuttering in circular work (20% of respective centering and shuttering items)	sqm	0.20	
39.15	Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, coping bed plates, anchor blocks and the like	sqm	119.25	
39.16	Edges of slabs and breaks in floors and walls			
39.16.1	under 20 cm wide	mtr	61.10	
39.16.2	Above 20 cm wide	sqm	278.25	
39.17	Nil			
39.18	Nil			
39.19	Conices and mouldings	sqm	323.00	
39.2	Small surfaces such as cantilever ends, brackets and ends of steps, caps and bases to pilasters and columns and the like.	sqm	246.95	
39.21	Weather shade, chajjas, corbels etc. including edges.	sqm	258.60	
39.22	Suspended floors roofs, landing balconies and access platform with water proof ply 12mm thick	sqm	987.70	
39.23	Lintels beams plinth beams girders bressumers and cantilevers with water proof ply 12mm thick	sqm	916.70	
40	Providing hoisting and fixing upto floor five level precast reinforced cement concrete work in string courses bands coping bed plates anchor blocks, plain window sills and the like including the cost of required centering shuttering finishing smooth with 6mm thick cement plaster 1:3 (1cement 3 fine sand) on exposed surface complete but excluding cost of stone aggregate 20mm nominal size)	cum	2898.65	Cement / Steel will be issued free of cost from BHEL Stores
41	Providing hoisting and fixing upto floor five level precast reinforced cement concrete in lintels beams and bressumers includign setting in cement mortar 1:3 (1cement 3 coarse sand) cost of required centering and shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1cement 3 fine sand) on exposed surfaces but excluding the cost of reinforcement with 1:2:4(1 cement 2 coarse sand 4 graded stone aggregate with 20mm nominal size)	cum	3421.47	Cement / Steel will be issued free of cost from BHEL Stores
42	Providing hoisting and fixing upto floor five level precast reinforced cement concrete in vertical and horizontal fines individually or forming box louvers setting in cement mortar 1:2 (1cement 2 coarse sand) including the cost of required centering shuttering and finishing smooth with 6mm thick cement plaster 1:3(1cement 3 fine sand) on exposed surfaces complete but excluding the cost of reinforcement with 1:2:4(1cement 2 coarse sand 4 graded stone aggregate 20mm nominal size)	cum	4276.44	Cement / Steel will be issued free of cost from BHEL Stores
43	Providing precast cement concrete jali 1:2:4(1cement 2 coarse sand 4 graded stone aggregate 6mm nominal size) reinforced with 1.6mm dia mild steel wire including centering and shuttering roughening cleaning fixing in cement mortar 1:3 (1cement 3 fine sand)etc. complete excludign plastering of the jambs sills and soffits.			
43.1	50mm thick	sqm	350.64	Cement / Steel will be issued free of cost from BHEL Stores
43.2	40mm thick	sqm	295.49	Cement / Steel will be issued free of cost from BHEL Stores
43.3	25mm thick	sqm	268.79	Cement / Steel will be issued free of cost from BHEL Stores

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ENCASING ROLLED STEEL SECTION				
44	Encasing rolled steel section, in beams and columns with cement concrete 1:2:4(1cement 2 coarse sand 4 graded stone aggregate 12.5mm nominal size) including centering and shuttering complete but excluding cost of reinforcement.	cum	3283.10	Cement / Steel will be issued free of cost from BHEL Stores
45	Encasing rolled steel sections in beams and columns with cement concrete 1:2:4(1cement 2 coarse sand 4 graded stone aggregate 12.5mm nominal size) including centering and shuttering complete but excluding cost of expanded metal and hangers.	cum	1840.85	Cement / Steel will be issued free of cost from BHEL Stores
46	Reinforcement for RCC work including straightening, cutting bending placing in position and binding all complete.			
46.1	Cold twisted bars	kg	5.87	Cement / Steel will be issued free of cost from BHEL Stores
46.2	Hot rolled deformed bars	kg	5.87	Cement / Steel will be issued free of cost from BHEL Stores
47	Extra for rendering smooth the top of suspended floors landings and staircases(treads and risers) with cement mortar 1:2(1cement 2 coarses sand) including a floating cost of neat cement and protecting the surface with a layer of 7.5 cm of earth laid over 15mm of fine sand in case of suspended floor and bricks laid in mud mortar in case of landing and steel includign subsequent removal and cleaning of the same	sqm	25.63	Cement / Steel will be issued free of cost from BHEL Stores
48	Providing and filling in position blown bitumen in expansion joints.	per cm depth per cm width per 100m	348.70	
49	Providing and filling in position bitumen mix filler of proportion 80 kg of hot bitumen 1kg of cement and 0.25 cubic metre of coarse sand for expansion joints.	per cm depth per cm width per 100m	98.68	Cement / Steel will be issued free of cost from BHEL Stores
50	Providing and fixing in position 12mm thick bitumen impregnated fibre board conforming to IS: 1838 including cost of primer sealing compound in expansion joints	per cm depth per cm width per 100m	334.55	
51	Providing and laying in position machine batched machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering shuttering finishing and reinforcement. including admixtures in recommended proportions as per IS 9103 to accealarate retard setting of concrete improve workability with out impairing strength and durability as per direction of Engineer in Charge. M-25 grade reinforced cement concrete by using 410kg of cement per cum of concrete. all work up to floor V level.	cum	2007.20	Cement / Steel will be issued free of cost from BHEL Stores
52	Add or deduct for providing richer or leaner mixes respectively at all floor levels.			
52.1	Providing M-30 grade concrete by using 420kg of cement per cum of concrete instead of M-25 grade B.M.C/ R.M.C.	cum	2.35	Cement / Steel will be issued free of cost from BHEL Stores
52.2	Providing M-35 grade concrete by using 428kg of cement per cum of concrete instead of M-25 grade B.M.C/R.M.C.	cum	4.24	Cement / Steel will be issued free of cost from BHEL Stores
52.3	Providing M-40 grade concrete by using 435kg of cement per cum of concrete instead of M-40 grade B.M.C/R.M.C.	cum	5.90	Cement / Steel will be issued free of cost from BHEL Stores
BRICK MASONRY				
53	Brick work with FPS bricks of class designation 75 in foundation and plinth in:			
53.1	cement mortar 1:4(1cement :4 coarse sand)	cum	1797.50	Cement / Steel will be issued free of cost from BHEL Stores

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53.2	cement mortar 1:6(1cement :6 coarse sand)	cum	2118.49	Cement / Steel will be issued free of cost from BHEL Stores
53.3	Brick work with modular bricks of class designation 75 in foundation and plinth in			
53.3.1	cement mortar 1:4(1cement :4 coarse sand)	cum	1704.35	Cement / Steel will be issued free of cost from BHEL Stores
53.3.2	cement mortar 1:6(1cement :6 coarse sand)	cum	2045.94	Cement / Steel will be issued free of cost from BHEL Stores
54	Brick work FPS brick of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in			
54.1	cement mortar 1:4(1cement :4 coarse sand)	cum	2033.15	Cement / Steel will be issued free of cost from BHEL Stores
54.2	cement mortar 1:6(1cement :6 coarse sand)	cum	2354.14	Cement / Steel will be issued free of cost from BHEL Stores
55	Half brick masonry with FPS brick of class designation 75 in foundation and plinth in.			
55.1	cement mortar 1:3(1cement :3 coarse sand)	sqm	215.06	Cement / Steel will be issued free of cost from BHEL Stores
55.2	cement mortar 1:4(1cement :4 coarse sand)	sqm	214.81	Cement / Steel will be issued free of cost from BHEL Stores
56	Half brick masonry with FPS brick of class designation 75 in superstructure above plinth level upto floor V level.			
56.1	cement mortar 1:3(1cement :3 coarse sand)	sqm	247.46	Cement / Steel will be issued free of cost from BHEL Stores
56.2	cement mortar 1:4(1cement :4 coarse sand)	sqm	247.26	Cement / Steel will be issued free of cost from BHEL Stores
STONE MASONRY				
57	Random rubble masonry with hard stone in foundation and plinth including leveling up with cement concrete 1:6:12(1cement 6 coarse sand 12 grade stone aggregate 20mm nominal size) at plinth level with			
57.1	cement mortar 1:6(1cement :6 coarse sand)	cum	1795.84	Cement / Steel will be issued free of cost from BHEL Stores
58	Coursed rubble masonry (second sort) with hard stone in foundation and plinth with			
58.1	cement mortar 1:6(1cement 6 coarses sand)	cum	1873.95	Cement / Steel will be issued free of cost from BHEL Stores
59	Stone work (machine cut edges) for wall lign upto 10m height etc.(veneer work) backing filled with a grout of 12mm thick cement mortar 1:3(1cement 3 coarse sand) and jointed with cement mortar 1:2(1cement 2 stone dust) including rubbing and polishing complete(to be secured to the backing by means of cramps which shall be paid for separately)			
59.1	Kota stone slabs exposed face dressed and rubbed			
59.1.1	25mm thick	sqm	653.21	Cement / Steel will be issued free of cost from BHEL Stores
60	Stone tile work for wall lining upto 10m height with special adhesive over 12mm thick bed of cement mortar 1:3(1 white cement 2 coarse sand) including pointing in white cement with an admixture of pigment to match the stone shade			
60.1	8mm thick (mirror polishsed and machine cut edge)			
60.1.1	Granite stone of any colour and shade	sqm	980.38	Cement / Steel will be issued free of cost from BHEL Stores
60.1.2	Raj nagar plain white marble udaipur green marble / Zebra black marble	sqm	831.58	Cement / Steel will be issued free of cost from BHEL Stores

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WOOD/ PVC WORKS				
61	Providing wood work in frames of doors windows, clerestory windows and other frames, wrought framed and fixed in position			
61.1	Second class teak wood	cum	52090.00	
61.2	Sal wood	cum	30511.90	
61.3	Kiln seasoned and chemically treated Hollock wood	cum	31339.40	
61.4	Fixing well seasoned medium Indian teak wood work in frames of doors / Windows / clearstory windows and other frames, wrought framed and fixed in position etc complete all as directed by Engineer-in-charge. (This includes dismantling the existing frames, brick work, PCC,application of primer etc and making good to a neat finish etc complete including disposal of debries, at 2 KM lead.)	Cum	6386	
62	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI maked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately.			
62.1	Second class teak wood			
62.1.1	35mm thick shutters	sqm	1373.65	
62.1.2	30mm thick shutters	sqm	1219.10	
62.2	Kiln seasoned and chemically treated Hollock wood			
62.2.1	35mm thick shutters	sqm	899.70	
62.2.2	30mm thick shutters	sqm	810.90	
63	Providing and fixing 35mm thick factory made laminated veneer lumber door shutter confoming to IS 14616 and TDS 15:2001(part B) including ISI marked black enameled M.S butt hinges with necessary screws as per directions of engineer in charge and panelling with panels of			
63.1	12mm thick plain grade-1, medium density flat pressed three layer particle board FPT-1 or grade wood particle board FPT-1 IS :3087 marked bonded with BWP type synthetic resin adhesive as per IS :848	sqm	1877.20	
63.2	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 boarde 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	sqm	2014.25	
63.3	12mm thick one side pre- laminated particle board (decorative lamination on one side and other sides balancing lamination) grade-1 medium density flat pressed three layer particle board PFT-1 or graded wood particle board FPT-1 conforming to IS 3087 bonded with BWP type synthetic resin adhesive as per IS 848 and pre- laminated conforming to IS 12823 grade -1, type II marked	sqm	1960.80	
64	Providing and fixing panelling or panelling and glezing in panelled or panelled and glazed shutters for doors windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured) panelling for panelled or panelled and glazed shutters 25mm to 40mm thick			
64.1	Second class teak wood	sqm	1075.60	
64.2	Kiln seasoned and chemically treated Hollock wood	sqm	711.25	
64.3	Ply wood 5 ply,9mm thick			
64.3.1	Decorative plywood both side decorative veneer (Type-1) conforming to IS 1328 BWR type	sqm	1121.60	
64.3.2	Decorative plywood one side decorative veneer (Type-1) conforming to IS 1328 BWR type	sqm	923.30	
64.4	Nil			
64.5	Nil			
64.6	Ply wood 7 ply,9mm thick			
64.6.1	Decorative plywood one side decorative veneer (Type-1) conforming to IS 1328 BWR type	sqm	971.85	
64.7	Nil			
64.8	Particle board 12mm thick			
64.8.1	Plain particle board flat pressed, 3 layer or grade wood particle board medium density grade I, IS: 3087 marked	sqm	518.35	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
64.8.2	Veneered flat pressed three layer or graded wood particle board with commercial veneering on both sides conforming to IS 3097, grade I.	sqm	740.20	
64.8.3	Pre-lamination particle board with decorative lamination on one side and balancing lamination on other side, grade I, type II IS 12823 marked.	sqm	985.70	
64.8.4	Pre-lamination particle board with decorative lamination on both side and balancing lamination on other side, grade I, type II IS 12823 marked.	sqm	1027.30	
65	Providing and fixing panelling or panelling and glezing in panelled or panelled and glazed shutters for doors windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured) panelling for panelled or panelled and glazed shutters 25mm to 40mm thick. coir veneer board(conforming to IS 14842-2000)			
65.1	12 mm thick	sqm	920.50	
66	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.			
66.1	Second class teak wood			
66.1.1	35mm thick	sqm	1718.30	
66.1.2	30mm thick	sqm	1541.65	
66.2	Nil			
66.3	Nil			
66.4	Klin seasoned and chemically treated Hollock wood			
66.4.1	35mm thick	sqm	1178.60	
66.4.2	30mm thick	sqm	1077.50	
67	Providing and fixing factory made lamination veneer lumber glazed shutter conforming to IS14616 and TADS 15:2001(part B) using 4mm thick float glass panes for doors windows and clerestory windows including ISI marked black enamelled MS butt hinges with necessary screws as per directions of Engineer in charge			
67.1	30mm thick shutters	sqm	1633.25	
68	Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors windows and clerestory window shutters(area of opening for glass panes excluding portion inside rebate shall be measured)			
68.1	5.5mm thick instead of 4mm thick	sqm	106.85	
69	Extra for providing frosted glass panes 4mm thick instead of ordinary float glass panes 4mm thick in doors windows and clerestory window shutters(area of opening for glass panes excluding portion inside rebate shall be measured)	sqm	10.45	
70	Providing and fixing 25mm thick shutters for cup board etc.			
70.1	Panelled or Panelled and glazed shutters			
70.1.1	Second class teak wood including ISI marked anodised aluminium butt hings with necessary screws	sqm	1372.50	
70.2	Nil			
70.3	Glazed shutters			
70.3.1	Second class teak wood including ISI marked anodised aluminium butt hings with necessary screws	sqm	1368.90	
71	Providing and fixing pre-laminated flat pressed 3 layer (medium density) particle board or grded wood particle board IS 3087 marked with one side decorative and other side balancing lamination grade I, type II exterior grade IS 12823 marked in shelves with screws and fitting wherever required edges to be painted with polyurethane prime fitting to be separately)			
71.1	18mm thick	sqm	935.95	
71.2	25mm thick	sqm	1009.70	
72	Providing and fixing 25mm thick shutters for cup board etc. including ISI marked black enamelled MS butt hinges with necessary screws:			

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
72.1	Panelled or Panelled and glazed shutters			
72.1.1	Second class teak wood	sqm	1312.95	
72.2	Nil			
72.3	Glazed shutters			
72.3.1	Second class teak wood	sqm	1387.10	
73	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 band and face veneers on both faces of shutters			
73.1	35mm thick including ISI marked stainless steel butt hinges with necessary screws	sqm	1473.50	
73.2	30mm thick including ISI marked stainless steel butt hinges with necessary screws	sqm	1415.45	
73.3	25mm thick (for cupboard) including ISI marked nickel plated bright finished MS piano hinges IS 3818 marked with necessary screws	sqm	1317.65	
74	Providing 50x50x50mm 2nd class teak wood plug including cutting brick work and fixing in cement mortar 1:3(1cement 3 fine sand) and making good the walls etc.	each	4.93	Cement / Steel will be issued free of cost from BHEL Stores
75	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised MS screws including drilling holes in masonry work/CC/RCC and making good etc, complete			
75.1	25mm long	each	9.40	
75.2	32mm long	each	11.15	
75.3	40mm long	each	13.45	
75.4	50mm long	each	15.80	
76	Providing and fixing 2nd class teak wood plain lining tongued and grooved on and including wooden plugs complete with necessary screws and priming coat on unexposed surface.			
76.1	40mm thick	sqm	2620.49	Cement / Steel will be issued free of cost from BHEL Stores
76.2	25mm thick	sqm	1680.24	Cement / Steel will be issued free of cost from BHEL Stores
76.3	20mm thick	sqm	1332.24	Cement / Steel will be issued free of cost from BHEL Stores
76.4	12mm thick	sqm	838.99	Cement / Steel will be issued free of cost from BHEL Stores
77	Providing and fixing MS grills of required pattern in frames of windows etc. with MS flats, square or round bars etc. all complete			
77.1	Fixed to steel windows by welding	kg	59.25	
77.2	Fixed to opening / wooden frames with rawl plugs screws etc	kg	64.40	
78	Providing and fixing ISI marked MS pressed butt hinges bright finished with necessary screws etc. complete			
78.1	125x65x2.12mm	each	16.80	
78.2	100x58x1.90mm	each	13.10	
78.3	75x60x3.10mm	each	9.55	
78.4	50x37x1.50mm	each	5.35	
79	Providing and fixing IS 1341 marked MS heavy weight butt hinges with necessary screws etc. complete			
79.1	125x90x4.00mm	each	37.50	
79.2	100x75x3.50mm	each	22.25	
79.3	75x60x3.10mm	each	13.40	
79.4	50x40x2.50mm	each	8.15	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
80	Providing and fixing partition upto ceiling height consisting of G.I frame and required board including providing and fixing of frame work made of special section power / roll form G.I sheet with Zinc coating of grade 175 in consisting of floor and ceiling channel 50mm wide having equal flanges of 32mm and .5mm thick fixed to the floor and ceiling at the spacing of 610mm centre to centre with dash fastener of 12.5mm dia meter 40mm length and the studs 48mm wide having one flange of 43mm and other flanges 36mm and 0.50mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610mm centre to centre by 6mm dia bolts and nuts at both ends of partition fixed flush to wall with rawl plugs at spacing of 450mm centre to centre and fixing of boards to either side of frame work by 20mm long drive wall screws on studs floor and ceiling channels at the spacing of 300mm centre to centre including jointing and finishing to a flush with recommended jointing compound jointing tape joint finisher and two coats of primer suitable for board as per manufacture specification all complete.			
80.1	67mm overall thickness partition with 8.5mm thick double skin glass reinforced Gypsum (GRG) board conforming to IS 2095 part III	sqm	813.80	
80.2	75mm overall thickness partition with 12.5mm thick double skin plain Gypsum board conforming to IS 2095 part I	sqm	674.45	
80.3	66mm overall thickness partition with 8mm thick double skin calcium silicate board made with calcareous and siliceous materials reinforced with cellulosic fiber manufactured through autoclaving process with compressive strength 225kg/sqcm bending strength 100kg / sq.cm	sqm	823.10	
80.4	66mm overall thickness partition using 8mm thick double skin non-asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS 14862 with suitable fibre cement screws	sqm	927.65	
81	Providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall dimensions as below (tolerance - +1mm) with wall thickness 2.0mm - + 0.2mm, corners of the door frame to be mitred and welded of pastic, galvanized brackets and stainless steel screws . the hinges side vertical of the frames reinforced by galvanized stainless steel hinges fixed to the frame complete as per manufactures specification and direction of engineer in charge			
81.1	Extruded section profile size 48x40mm	mtr	141.00	
81.2	Extruded Section Profile size 42x50mm	mtr	146.80	
81.3	Providing and fixing to existing door frames			
81.3.1	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 overall thickness of 20mm and 1mm - + 0.1mm wall thickness. the panels filled vertically and tie bar at two places by inserting horizontally 6mm galvanised MS rod and fastened with nuts and washers, complete as per manufacture's specification and washers complete as per manufacture's specification and direction of engineer in charge. (for W.C and bathroom door shutter)	sqm	2190.50	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
81.3.2	30mm thick factory made polyvinyl chloride (PVC) door shutter made of styles and rails of a UPVC hollow section of size 60x30mm and wall thickness 2mm + 0.2mm with inbuilt decorative moulding edging on one side. The styles and rails mitred and joined at the corners by means of MS galvanised/ plastic brackets of size 75x220mm having wall thickness 1.0mm and stainless steel screws. the styles of the shutter reinforced by inserting galvanised MS tube of size 25x20mm and 1mm + 0.1mm wall thickness.the lock rail made up of H section a UPVC hollow section of size 100x30mm and 2mm + 0.2mm wall thickness fixed to the shutter styles by means of plastic galvanised MS U cleats. 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 620mm 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 dircetion of engineer in charge	sqm	2271.80	
81.3.3	25mm thick PVC flush door shutters made out of a one piece multi chamber extruded PVC section of the size of 762 mm x 25mm or less as per requirment with an average wall thickness of 1mm + 0.3mm. PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. an MS tube having dimensions 19mmx19mm is inserted along the hinges side of the door. core of the door shutter shuold be filled with high density polyrenthane foam. the top and bottom edges of the shutter are covered with an end cap of the size 25mm x 11mm. door shutter shall be reinforced with special polymeric reinforcements as per manufacture specification and direction of Engineer in charges to take up necessary hardware and fixtures. stickers indicating the locations of hardware will be pasted at appropriate places	sqm	2358.90	
82	Providing and fixing factory made P.V.C. door frame of size 50x47mmwith a wall thickness of 5mm, made out of extruded 5mm rigid PVC foamsheet mitred at corners and joined with 2 Nos. of 150mm long brackets of15x15mm M.S. square tube, the vertical door profiles to be reinforced with19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weatherseal to be provided through out the frame. The door frame to be fixed tothe wall using M.S. screws of 65/100mm size complete as permanufacturers specification and direction of Engineer-in-Charge.	mtr	353.10	
83	Providing and fixing to existing door frames			

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
83.1	30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5mm thick heat moulded PVC 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45 degree angle on either side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7mm (5mm+2mm) thick x 15mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge. Manufacturer's specification & drawing (for W.C. and bathroom door shutter).	sqm	2109.95	
83.2	30mm thick factory made solid both side Pre-laminated panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5mm thick heat moulded Pre-laminated PVC 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45 degree angle on either side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rail shall be provided either side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5mm thick both side Pre-laminated PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7mm (5mm+2mm) thick x 15mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge	sqm	2580.35	
84	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.	One Sqm	1848.00	
85	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.	One Sqm	1769.00	
86	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.	One Sqm	1628.00	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
87	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).	One Sqm	1650.00	
88	Supply and fixing well seasoned medium Indian teak wood ventilator shutter 30 mm thick fully glazed top/side hung type, glazing with 3mm thick glass of approved quality.	One Sqm	1650.00	
89	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.	One Sqm	1628.00	
90	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.	One Sqm	1463.00	
91	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.	One Sqm	750.00	
92	Supplying and fixing of M.S flymesh of an approved quality to the existing door and window shutters with necessary wooden beeding wherever necessary, including removing the existing flymesh, cost of all materials etc., complete.	One Sqm	370.00	
93	Supplying and fixing of medium Indian teak wood door shutters 30 mm thick partly panelled and partly flymesh of approved quality including cost and fixing of M.S. fixtures, fittings and furniture of superior quality etc., complete.	One Sqm	1897.00	
94	Supplying and fixing of medium Indian teak wood door shutters 30 mm thick with fully flymesh of approved quality including cost and fixing of M.S. fixtures, fittings and furniture of superior quality etc., complete.	One Sqm	1638.00	
95	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).	One Sqm	218.00	
96	Supplying of medium Indian teak wood planks of 19 mm thick in various sizes as directed upto a length of 2.40 M.	One Sqm	1371.00	
97	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.	One Rmt	58.50	
98	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.	One Sqm	1074.86	
99	Supply and fixing commercial Plywood sheets 4 mm thick plain lining with necessary screws, priming coat on exposed surface etc complete all as directed by Engineer-in-charge.	One Sqm	341.00	
100	Repairs to the existing doors, windows, ventilators and cup boards including frame, shutters, fittings, weldmesh, T.W beadings etc., all as directed by the Engineer-in-charge. (Only labour charges).	One Sqm	144.20	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
101	Conveying from the stores of wooden / PVC - single / double leaf door shutters and fixing in position at places as directed with out fittings etc (Labour charges only)	One Sqm	129.60	Shutters will be issued free of cost from BHEL Stores
102	Supplying and fixing laminated sheet of thickness not less than 1 mm of required design, brand, quality and size all as directed by the Engineer-in-charge.	One Sqm	288.00	
103	Supplying and fixing M.S aldrop powder coated of 16 mm dia 300 mm long heavy type with plate folded hooks required nuts and bolts as directed by the Engineer-in-charge.	Each	191.00	
104	Supplying and fixing M.S aldrop powder coated of 12 mm dia 200 mm long heavy type with required nuts and bolts as directed by the Engineer-in-charge.	Each	59.00	
105	Supplying and fixing of PVC netlon mesh of approved colour to the existing window mesh shutters with male and female posting arrangements and removing of existing old flymesh etc. complete as directed by the Engineer-in-charge.	One Sqm	240.00	
106	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.	One Sqm	1176.00	
STEEL WORK*				
107	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	4.39	
108	Structural steel work riveted bolted or welded in built up sections, strusses and framed work, hoisting fixing in position and applying a priming coat of approved steel primer all complete	kg	8.34	
109	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm dia steel pulleys complete with bolts nuts locking arrangement stoppers handles including applying a priming coat of approved steel primer	sqm	1372.77	
110	Providing and fixing 1mm thick MS sheet sliding shutters with frame and diagonal braces of 40x40x6 mm angle iron 3mm MS gusset plates at the junction and corners 25mm dial pully 40x40x6mm angle and T-iron guide at the top and bottom respectively including applying a priming coat of approved steel primer	sqm	629.72	
110	Providing and fixing 1mm thick MS sheet door with frame of 40x40x6mm angle iron and 3mm gusset plates at the junctions and corners all necessary fitting complete including applying a priming coat of approved steel primer			
110.1	Using MS angles 40x40x6mm for diagonal braccsss	sqm	656.16	
110.2	Using flat 30x6mm for diagonal braccss and central cross piece	sqm	654.39	
111	Supplying and fixing rolling shutters of approved make made of required size MS 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 and arrangement for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire spring grade No. 2 and MS top cover of required thickness for rolling shutters			
111.1	80x1.25mm MS laths with 1.25mm thick top cover	sqm	1208.45	
111.2	80x1.20mm MS laths with 1.20mm thick top cever	sqm	965.35	
111.3	80x0.90mm MS laths with 0.90mm thick top cover	sqm	911.10	
112	Providing and fixing mechanical device chain and crank operation for operating rolling shutters	each	356.50	
113	Extra for providing mechanical device chain and crank operation for operating rolling shutters			
113.1	Exceeding 10.00 sqm and upto 16.80 sqm in the area	sqm	480.30	
113.2	Exceeding 16.80 sqm in area	sqm	538.40	
114	Extra for providing grilled rolling shutters manufactured out of 8mm dia MS bar instead of laths as per design approved by engineer in charge (area of grill to be measured)	sqm	214.90	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
115	fixing standard steel glazed doors windows and ventilators in walls with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of 1:3:6(1 cement 3 coarse sand 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of float glass panes with glazing clips and special metal sash putty of approved make or metal beading with screws(only steel windows with lugs glass panes cut to size and glazing clips or metal beading with screws shall be supplied by department free of cost)	kg	18.42	Cement / Steel will be issued free of cost from BHEL Stores
116	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side top centre hung with beading and all members such as K11B and K12B etc.complete of standard rolled steel sections joints metres and flash butt welded and sash bars tenoned and riveted with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10cm of 1:3:6(1cement 3 coarse sand 6 grade stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of hinges, pivots, float, glass panes with glazing clips and special metal sash putty of approved make and a priming coat of approved steel primer excluding the cost of metal beading and other fitting except necessary hinges or pivots complete as per approved design.	kg	41.49	Cement / Steel will be issued free of cost from BHEL Stores
117	Extra for providing and fixing steel beading of approved shape and section with screw instead of glazing clips and metal sash putty in steel doors , wondows ventilators and composite units.	mtr	20.84	
118	Providing and fixing T-iron frames for doors windows and ventilators of mild steel tee- section, joints mitred and welded with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of 1:3:6(1cement 3 coarse sand 6 grade stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with dash fastener or with fixing clps or with bolts and nuts as require including fixing of necessary butt hinges and screws and applying a primming coat of approved steel primer	kg	8.50	Cement / Steel will be issued free of cost from BHEL Stores
119	Providing and fixing pressed steel door frames confirming to IS 4351 manufactured from commercial mild steel sheet of 1.25mm thickness including hinges jamb , lock , jamb, bead and if required angle threshold of mild steel angle of section 50x25mm or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock , strikeplate and shock absorbers as specified and applying a coat of approved steel primer after pre treatment of the surface as directed by engineer in charge			
119.1	Profile B	mtr	21.99	
119.2	Profile C	mtr	22.02	
119.3	Profile E	mtr	22.05	
120	Providing and fixing MS Tubular frames for doors windows ventilators and cupboard with L-Type section made of 1.60mm thick MS sheet joints mitred and welded and grinded finish profiles required size with 15x3m plugs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6(1 cement 3 coarse sand 6 grade stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primers.	kg	42.70	Cement / Steel will be issued free of cost from BHEL Stores
121	steel work in built up tubular trusses including cutting hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc.complete			
121.1	Hot finished welded type tybes	kg	15.20	
121.2	Hot finished seamless type tubes	kg	44.47	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
121.3	Electric resistance or induction butt welded tubes	kg	44.47	
122	providing and fixing MS fan clamp type I or II of 16 mm dia MS bar bent to shape with hooked ends in RCC slabs, beams during laying including painting the exposed portion of of loop all as per standard design complete	each	15.05	
123	Providing and fixing circular / Hexagonal cast iron or MS sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm thick MS sheet with its top surface hacked for proper bonding top lid shall be screws into the cast iron/ MS sheet box by means of 3.3 mm dia. round headed screws , one lock at the corners . clamp shall be made of 12mm dia MS bar bent to shape as per standard drawing.	each	52.68	
124	Providing and fixing MS round holding down bolts with nuts and washer plates complete	kg	4.35	
125	Providing and fixing bolts including nuts and washers complete	kg	12.87	
126	Providing and fixing MS rivets of sizes in positio.	kg	29.30	
127	Welding by gas or electric plant including transportation of plant at site etc. complete	cm	1.45	
128	Providing and fixing bright finished brass casement window fastener or peg stays to windows/ ventilation with necessary welding and machine screws etc. complete	kg	226.05	
129	Providing and fixing 14mm bright finished brass spring catch to steel centre hung ventilators with necessary welding and machine screws etc. complete	each	27.65	
130	Steel work welded in built up sections/ frames work including cutting hoisting fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required,			
130.1	In stringers treads landing etc, of stair cases including use of chequered plate wherever required all complete	kg	7.72	
130.2	In gratings frames guard bar ladder railing brackets gates and similar works	kg	14.99	
131	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing balcony railling and staircase railing including applying a priming coat of approved steel primer			
131.1	M.S tube	kg	13.86	
131.2	ERW tubes	kg	46.97	
131.3	GI pipes	kg	15.62	
FLOORING/TILE WORK				
132	Cement concrete flooring 1:2:4(1cement 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.			
132.1	40mm thick with 20mm nominal size stone aggregate	sqm	104.21	Cement / Steel will be issued free of cost from BHEL Stores
133	Cement plaster skirting (upto 30cm height) with cement mortar 1:3 (1cement 3 coarse sand) finished with a floating coat of neat cement			
133.1	18mm thick	sqm	95.42	Cement / Steel will be issued free of cost from BHEL Stores
134	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy bottle green black of any size as approved by engineer in charge in skirting risers of steps and dados over 12mm thick bed of cement including pigment of matching shade etc. complete as per drawing specification and direction of engineer in charge	sqm	555.95	Cement / Steel will be issued free of cost from BHEL Stores
135	Providing and laying ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacture) of 1 st quality conforming IS 15622 of approved make in colours such as white Ivory grey fume red brown laid on 20mm thick cement mortar 1:4(1 cement 4 coarse sand) including pointing the joints with white cement and matching pigment etc. complete.	sqm	598.00	Cement / Steel will be issued free of cost from BHEL Stores

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
136	Providing and laying ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in all colours shades except white Ivory, grey, gume red brown laid on 20mm thick bed of cement mortar 1:4(1 cement 4 coarse sand) including pointing the jointing the joints with white cement and matching pigment etc. complete	sqm	629.35	Cement / Steel will be issued free of cost from BHEL Stores
137	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours White, Ivory, Grey, Fume Red Brown, laid on 20mm thick cement mortar 1:4 (1Cement : 4 Coarse sand) including grouting the joints with white cement and matching pigments etc., complete.	sqm	759.25	Cement / Steel will be issued free of cost from BHEL Stores
138	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete.	sqm	799.75	Cement / Steel will be issued free of cost from BHEL Stores
139	Providing and laying polished vitrified floor tiles in different size (thickness to be specified by the manufacture) with water absorption's less than 0.08% and conforming to IS 15622 of approved make in all colours and shade, laid on 20mm thick cement mortar 1:4(1 cement 4 coarse sand) including grouting the joints with white cement and matching pigment etc. complete			
139.1	Size of tile 50x50cm	sqm	1308.05	
139.2	Size of tile 60x60cm	sqm	1448.55	
139.3	Size of tile 80x80cm	sqm	2046.15	
139.4	Size of tile 100x100cm	sqm	2755.70	
140	Deduct for not using 20mm thick cement mortar 1:4(1 cement 4 coarse sand) bending in laying of floor tiles	sqm	233.95	
141	Fixing glazed / ceramic vitrified floor tiles with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477 using 5 kg adhesive per sqm of tile area in average 3mm thickness	sqm	224.70	
142	Ellis pattern flooring 20 mm thick cement concrete using one cement and three granite stone metal chippings of 3 to 10mm gauge including fine finishing, neat thread lining, curing, cost of all materials etc. complete.	One Sqm	78.82	Cement / Steel will be issued free of cost from BHEL Stores
143	Flooring with rough shahabad stone slabs of 20 to 30 mm thick and approved quality over a base of cement mortar 1:6 and pointing with CM 1:3 including curing, cost of all materials etc. complete.	One Sqm	71.83	Cement / Steel will be issued free of cost from BHEL Stores
144	Flooring / dadoing polished shahabad stone slabs of 25 mm thick (Tandur blue) uniform shade and approved quality, over a base of cement mortar 1:6 and pointing with cement paste including curing, cost of all materials etc. complete.	One Sqm	291.42	Cement / Steel will be issued free of cost from BHEL Stores
145	Removing the existing flooring and redoing the same with Ellis pattern flooring 20 mm thick cement concrete using one cement and three granite stone chippings of 3 to 10 mm gauge including fine finishing, neat thread lining, curing, disposing off the spoils within a lead of 2 km etc. complete as directed by the Engineer- in-charge.	One Sqm	87.82	Cement / Steel will be issued free of cost from BHEL Stores
146	Removing the existing flooring and supply and fixing of coloured glazed tiles of Kajaria / Johnson or other approved make equivalent in all respects ceramic tiles of commercial grade of approved size, of approved shade and design for flooring and dado over a base of CM 1:4 including neat finishing and jointing with colour cement etc. complete. The rate shall include removing the existing floor and disposing of the debris to specified areas within a lead of 2 km (corners are to be jointed by metering the tiles).	One Sqm	478.17	Cement / Steel will be issued free of cost from BHEL Stores

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
147	Polising to the existing mosaic / polished shahbad stone flooring using necessary / machines/materials such as carborandam stone etc including neat finishing etc complete as directed by Engineering - in - charge..	One Sqm	20.00	
148	Removing the exiting cement flooring , supplying and laying of 25 mm thick (± 1 mm) designer floor tiles of approved colour and brand over a base of cement mortar 1:4, 20 mm thick, with required quantity of cement slurry for flooring including colouring pigment to match with tiles, cost of all materials etc complete all as directed by Engineer-in-charge.	One Sqm	601.61	Cement / Steel will be issued free of cost from BHEL Stores
ROOFING				
149	Providing and fixing on wall face unplasticised rigid pvc rain water pipes conforming to IS 13592 type a including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion (i) single socketed pipes			
149.1	75mm diameter	mtr	95.00	
149.2	110mm diameter	mtr	163.40	
150	Providing impervious coat in CM 1:4, 20 mm thick using approved water proofing compound at one Kg/bag of cement when the roof slab is green including arranging proper slopes, for easy flow of rain water, curing etc complete.	One Sqm	122.87	
151	Fixing of Roofing Sheets			
151.1	Labour charges for fixing AC sheet roofing and ceiling using 'J' bolts, nuts, bitumen / GI washers etc.complete, (only AC sheets and ridges will be supplied free of cost at BHEL stores) all as directed by Engineer-in - charge.	One Sqm	40.00	only AC sheets and ridges will be supplied free of cost at BHEL stores
151.2	Fixing of Hi-rib s galvalume /Zincalume sheets of 0.5 mm tk. 1 mtr width and length upto 12 mts with factory cut and fixing to the roof shall be crest fixed to roofpurlins with number 12-14 x 55 mm polymer coated galvanised hex head self drilling screws with integral washers and EPDM seals (4 fasteners for support) for sheet etc., complete asdirected (Excluding cost of galvalume sheets which will be issued free of cost by BHEL attheir stores) - For roofing, side cladding and louvers with necessary fixtures. All the safety measures should be taken care by the agency itself.	One Sqm	75.00	galvalume sheets will be issued free of cost by BHEL attheir stores
151.3	Fixing North Light curves/ Barges in required girth with 0.5 mm galvalume sheets upto a length of 2.5 M having curved width upto 600 mm fixing to the steel members with self drilling / self stitching, fasteners at a maximum of 500 mm c/c along the length of capping,flashing etc.,complete as directed by Engineer-in-charge. including the cost of labouretc.,complete.(North Light Curves / Barges Will beissued free of cost by BHEL at their Stores).All the safety measures should be taken by the agency itself.	One Rmt	55.00	Barge boards will be issued free of cost by BHEL attheir stores
152	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.	Each Shed	360.00	
FINISHING				
153	12mm cement plaster of mix			
153.1	1:4(1 cement 4 fine sand)	sqm	49.00	Cement / Steel will be issued free of cost from BHEL Stores
153.2	1:6(1 cement 6 fine sand)	sqm	48.86	Cement / Steel will be issued free of cost from BHEL Stores
154	15mm cement plaster on the rough side of single or half brick wall of mix			
154.1	1:4(1 cement 4 fine sand)	sqm	56.21	Cement / Steel will be issued free of cost from BHEL Stores
154.2	1:6(1 cement 6 fine sand)	sqm	56.10	Cement / Steel will be issued free of cost from BHEL Stores
155	20mm cement plaster of mix			
155.1	1:4(1 cement 4 fine sand)	sqm	66.03	Cement / Steel will be issued free of cost from BHEL Stores
155.2	1:6(1 cement 6 fine sand)	sqm	65.87	Cement / Steel will be issued free of cost from BHEL Stores
156	12mm cement plaster of mix			

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
156.1	1:4(1 cement 4 coarse sand)	sqm	54.00	Cement / Steel will be issued free of cost from BHEL Stores
156.2	1:6(1 cement 6 fine sand)	sqm	53.91	Cement / Steel will be issued free of cost from BHEL Stores
157	15mm cement plaster on the rough side of single or half brick wall of mix			
157.1	1:4(1 cement 4 coarse sand)	sqm	62.21	Cement / Steel will be issued free of cost from BHEL Stores
157.2	1:6(1 cement 6 coarse sand)	sqm	62.10	Cement / Steel will be issued free of cost from BHEL Stores
158	20mm cement plaster of mix			
158.1	1:4(1 cement 4 coarse sand)	sqm	73.83	Cement / Steel will be issued free of cost from BHEL Stores
158.2	1:4(1 cement 4 coarse sand)	sqm	73.67	Cement / Steel will be issued free of cost from BHEL Stores
159	18mm cement plaster in two coats under layer 12mm thick cement plaster 1:5(1 cement 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6(1 cement 6 fine sand)	sqm	78.47	Cement / Steel will be issued free of cost from BHEL Stores
160	18mm cement plaster in two coats under layer 12mm thick cement plaster 1:5(1 cement 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:3(1 cement 3 coarse sand) finished rough with sponge.	sqm	81.06	Cement / Steel will be issued free of cost from BHEL Stores
161	6mm cement plaster of Mix			
161.1	1:3(1 cement 3 fine sand)	sqm	42.99	Cement / Steel will be issued free of cost from BHEL Stores
162	12mm thick plain cement mortar bands in cement mortar 1:4(1 cement 4 fine sand)			
162.1	Flush Band	cm per mtr	1.07	Cement / Steel will be issued free of cost from BHEL Stores
162.2	Sunk Band	cm per mtr	1.17	Cement / Steel will be issued free of cost from BHEL Stores
162.3	Raised Band	cm per mtr	1.37	Cement / Steel will be issued free of cost from BHEL Stores
162.4	Moulded Band	cm per mtr	2.32	Cement / Steel will be issued free of cost from BHEL Stores
163	18mm thick plain cement mortar band in cement mortar 1:4(1 cement 4 fine sand)			
163.1	Flush Band	cm per mtr	1.30	Cement / Steel will be issued free of cost from BHEL Stores
163.2	Sunk Band	cm per mtr	1.45	Cement / Steel will be issued free of cost from BHEL Stores
163.3	Raised Band	cm per mtr	1.65	Cement / Steel will be issued free of cost from BHEL Stores
163.4	Moulded Band	cm per mtr	3.15	Cement / Steel will be issued free of cost from BHEL Stores
164	Pointing on stone work with cement mortar 1:3(1 cement 3 fine sand)			
164.1	Flush / Ruled pointing	sqm	56.39	Cement / Steel will be issued free of cost from BHEL Stores
164.2	Raised and cut pointing	sqm	99.73	Cement / Steel will be issued free of cost from BHEL Stores
165	Raised and cut pointing on stone work in white cement mortar 1:3(1 white cement 3 marble dust)	sqm	113.68	Cement / Steel will be issued free of cost from BHEL Stores
166	White washing with lime to give an even shape			
166.1	New work (three or more coats)	sqm	6.75	
167	Colour washing such as green , blue or buff to buff to give an even shape			
167.1	New work (two or more coats) with a base coat of white washing with lime	sqm	9.30	
167.2	New work (two or more coats) with a base coat of whitening	sqm	9.10	
168	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade			
168.1	New work (two or more coats) over and including priming coat with cement primer.	sqm	41.55	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
169	Distemping with 1st quality acrylic washable distemper (ready mixed) of approved manufacture and of required shade and colour complete as per manufacturer specification			
169.1	Two or more coats on new work	sqm	23.55	
170	Applying one coat of cement primer of approved brand and manufacture on wall surface			
170.1	Cement primer	sqm	17.20	
171	Finishing walls with Acrylic smooth exterior paint of required shade			
171.1	New work (two or more coat applied @ 1.67 ltr/ 10 sqm) over and including base coat of water proofing cement paint applied @ 2.20kg/ 10sqms	sqm	96.25	
171.2	Painting the external wall surfaces by applying two or more coats of Acrylic smooth exterior paint (after completion of one coat prior clearance to be taken to apply the second coat with department officials) of BHEL supplied paint on existing old surface, including scrapping, cost of thinner, brushes labour, ladders, scaffolding, tools and other incidentals etc. complete up to 7m height including rectifying the wall cracks, patches etc with Birla wall care putty crack filler etc complete all as directed by Engineer-in-charge (only acrylic paint will be supplied by BHEL, free of cost at Township stores as per norms. Separate payment will be made for Birla wall care putty). All the safety precautions would be responsibility of the contractor.	Sqm	12.70	Paint will be issued free of cost from BHEL stores
172	Painting one thin coat with white lead of approved brand and manufacture on wet or patchy portion of plastered surfaces	sqm	22.60	
173	finishing with expoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat preparation fo surface etc. complete			
173.1	on steel work	sqm	75.25	
173.2	on concrete work	sqm	77.75	
174	Painting (two or more coats) on rain water soil waste and vent pipes and fitting with black anticorrosive bitumastic paint approved brand and manufacture over and including a priming of ready mixed zinc chromate yellow primer on new work			
174.1	100mm dia meter pipes	mtr	15.05	
174.2	150mm dia meter pipes	mtr	22.50	
175	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade			
175.1	Two or more coats on new work	sqm	33.25	
175.2	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	sqm	51.30	
175.3	Applying two or more coats of Synthetic Enamel Paint of given shade to old surfaces including scrapping, cost of thinner, brushes, labour tools, and other incidentals etc. complete up to 7m height. (Only Synthetic Enamel Paint will be supplied by BHEL, free of cost at their stores) etc. complete all as directed by Engineer-in-charge. All the safety precautions would be responsibility of the contractor.	Sqm	13.60	Paint will be issued free of cost from BHEL stores

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
176	Painting with aluminium paint of approved brand and manufacture to give an even shade			
176.1	Two or more coats on new work	sqm	28.60	
177	Varnishing with varnish of approved brand and manufacture			
177.1	Two or more coats of glue sizing with copal varnish over an under coat of flatting varnish	sqm	49.20	
177.2	Two or more coats glue sizing with spar varnish or an under coat of flatting varnish	sqm	50.80	
REPAIRS TO BUILDINGS				
178	Providing and fixing 25mm thick shutters for cup board etc			
178.1	Panelled or Panelled and glazed shutters			
178.1.1	Superior class teak wood including nickel plated bright finished MS piano hinges with necessary screws	sqm	2400.25	
178.1.2	1st class teak wood including nickel plated bright finished MS piano hinges with necessary screws	sqm	1563.50	
178.2	Nil			
178.3	Nil			
178.4	Glazed shutters			
178.4.1	Superior class teak wood including nickel plated bright finished MS piano hinges with necessary screws	sqm	2538.20	
178.4.2	1st class teak wood including nickel plated bright finished MS piano hinges with necessary screws	sqm	1638.75	
179	White washing with lime to give an even shape			
179.1	old work (two or more coats)	sqm	4.10	
179.2	old work (two or more coats)	sqm	2.55	
180	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	sqm	3.20	
181	Distempering with dry ditemper of approved brand and manufacture (two or more coats) and of required shade on new work, over and including priming coat of whitening to give an even shade	sqm	12.35	
182	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade			
182.1	old work (two or more coats)	sqm	14.90	
183	Removing dray 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	sqm	4.25	
184	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade			
184.1	one or more coats on old work	sqm	22.85	
185	Finishing walls with Acrylic smooth exterior paint of required shade			
185.1	old work (two or more coats applied @ 1.67ltr/10sqm) on exising cement paint surface)	sqm	36.30	
185.2	old work (one or more coat applied @0.90 ltr/ 10sqm)	sqm	22.80	
186	Painting to black boards with one coat of black board paint of approved brand including cost of all materials etc., complete all as directed by Engineer-in-charge.	One Sqm	22.85	
187	Applying golden colour or other approved colour to statues from 3' height to 8' height statue painting including scrapping the old surface and applying one or more coats to give good appearance including cost of scaffolding cost of all material all as directed by Engineer-in-charge.	Nos	1500.00	
188	Applying one coat of synthetic enamel paint of approved shade and brand to old iron work including scraping, cost of all materials etc., complete all as directed by Engineer-in-charge.	One Sqm	22.85	
189	Applying two coats of synthetic enamel paint of approved shade and brand to old iron work including scraping, cost of all materials etc., complete all as directed by Engineer-in-charge.	One Sqm	46.49	
190	Providing gultas in traingular shape of base 150 mm and height 150 mm with cement mortar 1:4, including fine finishing, cost of all materials etc complete all as directed by Engineer-in-charge.	One Rmt	6.73	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
191	Providing bands to slab / chajja projections in cement mortar 1:4, 20 mm thick and 20 mm wide including cost of all materials, curing etc complete all as directed by Engineer-in-charge.	One Rmt	24.44	
192	Flooring and skirting with 25 mm thick polished shahabad stone slabs (Tandur blue) of required sizes over a base of 20 mm thick cement mortar 1:6 including pointing in CM 1:2, curing, cost of all materials etc complete all as directed by Engineer-in-charge	One Sqm	309.59	
193	Removing the existing cement / mosaic / floor finishing and redoing the same with 20 mm thick ellis pattern flooring in cement concrete using one cement and three granite stone chippings of 3 to 10 mm guage including fine finishing, neat thread lining, curing cost of all materials, disposing off the spoils within a lead of 2 kms etc complete as directed by the Engineer-in-charge.	One Sqm	194.43	
194	Rectifying the wall cracks by chipping off the existing plastered surfaces to the required width, depth and applying cement slurry in the cracks to the required depth, making good all damages and finishing to match with the existing one by plastering with CM 1:5; 12/15 mm thick and a coat of white wash / snowcem / distemper etc as the case may be as directed by the Engineer-in-charge.	One Sqm	88.71	
195	Crack filling without pressure grouting: Routing out the cracks with a mechanically operated groove cutter and sealing with expansive crack filling compound - CERA POLY CRACKFFILLER or equivalent and tooling to finish neatly. Providing ,two top coats of CRACKFLEX, single component highly flexible membrane coating (for a width of 10 cms with the crack at the center) or equivalent as per manufacturer's recommendation and curing adequately. Rate quoted includes cost of material, labour charges, conveyance, tool and all other incidental charges etc complete all as directed by Engineering - in -charge. (local market rate)	Rmt	75.00	
DISMANTLING AND DEMOLISHING				
196	Demolishing lime concrete manually / by mechanical means and disposal of material within 50mtr lead as per direction of engineer in charge	cum	128.45	
197	Demolishing concrete manually / by mechanical means including disposal of material within 50mtr lead as per direction of engineer in charge			
197.1	1:3:6 or richer mix	cum	368.45	
197.2	1:4:8 or leaner mix	cum	226.90	
198	Demolishing RCC work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50mtr lead as per direction of engineer in charge	cum	537.55	
199	Extra for cutting reinforcement bars manually by mechanical means in RCC or RB work (payment shall be made on the cross sectional area of RCC or RB work) as per direction of engineer in charge	sqm	176.35	
200	Extra for scrapping, cleaning and straightening reinforcement from RCC or RB work	kg	1.45	
201	Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50mtr lead as per direction of engineer in charge			
201.1	In mud mortar	cum	106.45	
201.2	in lime mortar with old mughal bricks	cum	268.25	
201.3	in lime mortar	cum	128.45	
201.4	In cement mortar	cum	310.75	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
202	Demolishing stone rubble masonry manually by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50mtr lead as per direction of engineer in charge			
202.1	In lime mortar	cum	175.05	
202.2	In cement mortar	cum	370.75	
203	Dismantling door windows and clerestory windows (steel or wood) quantity of stacks of cleaned material will be measured)			
203.1	Of area 3sqm and below	each	54.60	
203.2	Of area beyond 3sqm	each	75.35	
204	Taking out doors windows and clerestory window shutters(steel or wood) including stacking within 50mtr lead			
204.1	Of area 3sqm and below	each	21.40	
204.2	Of area beyond 3sqm	each	28.25	
205	Dismantling wood in frames trusses purlins and rafters upto 10mtr span and 5 mtr height including stacking the material within 50mtr lead			
205.1	Of sectional area 40 square centimetres and above	cum	658.65	
205.2	Of sectional area below 40 square centimetres	mtr	2.65	
206	Dismantling steel work in single sections including dismembering and stacking within 50mtr lead in			
206.1	RS joists	kg	5.00	
206.2	Channels angles tees and flats	kg	0.35	
207	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 within 50mtr lead	kg	0.85	
208	Dismantling steel work manually by mechanical means in built up section without dismembering and stacking within 50mtr lead as per direction of engineer in charge	kg	0.60	
209	Extra for dismantling trusses raftes purlins etc. of steel work for every additional span of one meter or part thereof beyond 10mtr	kg per mtr span	0.15	
210	Dismantling precast concrete or stone slabs in walls partition walls etc. including stacking within 50mtr lead			
210.1	Thickness upto 40mm	sqm	44.10	
210.2	Thickness above 40mm upto 75mm	sqm	66.05	
211	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50mtr lead	sqm	8.60	
212	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			
212.1	15mm to 40mm nominal bore	mtr	24.90	
212.2	Above 40mm nominal bore	mtr	29.05	
213	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50mtr lead	sqm	8.20	
214	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	sqm	8.65	
215	Demolishing C.C/ RCC work by mechanical means and stockpiling at designated locations and disposal of dismantled materials upto a lead of 1000m , stacking serviceable and unserviceable material separately including cutting reinforcement bars	cum	731.05	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
SANITARY WORKS				
216	Dismantling, 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			
216.1	White vitreous china orissa pattern WC pan of size 580x440mm with integral type foot rests	each	2278.55	Cement / Steel will be issued free of cost from BHEL Stores
216.2	Stainless steel AISI 304(18/8)orissa pattern WC pan of size 585x480mm with flush pipe and integrated type foot rests	each	5356.50	Cement / Steel will be issued free of cost from BHEL Stores
217	Nil			
218	Dismantling, 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			
218.1	WC pan with ISI marked white solid plastic seat and lid	each	2126.40	Cement / Steel will be issued free of cost from BHEL Stores
218.2	WC pan with ISI marked black solid plastic seat and lid	each	2097.35	Cement / Steel will be issued free of cost from BHEL Stores
219	Dismantling, 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 design complete including painting of fitting and brackets cutting and making good the walls and floors wherever required			
219.1	WC pan with ISI marked white solid plastic seat and lid	each	3256.85	Cement / Steel will be issued free of cost from BHEL Stores
219.2	WC pan with ISI marked black solid plastic seat and lid	each	3227.85	Cement / Steel will be issued free of cost from BHEL Stores
220	Dismantling, 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 unions and GI clamps complete including painting of fitting and brackets cutting and making good the walls and floors wherever required			
220.1	One urinal basin with 5 ltr white PVC automatic flushing cistern	each	2005.65	Cement / Steel will be issued free of cost from BHEL Stores
220.2	Range of two urinal basins with 5 ltr white PVC automatic flushing cistern	each	3372.72	Cement / Steel will be issued free of cost from BHEL Stores
220.3	Range of three urinal basins with 10 ltr white PVC automatic flushing cistern	each	4456.63	Cement / Steel will be issued free of cost from BHEL Stores
220.4	Range of four urinal basins with 10 ltr white PVC automatic flushing cistern	each	6012.61	Cement / Steel will be issued free of cost from BHEL Stores
221	Dismantling, 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			
221.1	Single half stall urinal with 5 ltr PVC automatic flushing cistern	each	3693.68	Cement / Steel will be issued free of cost from BHEL Stores
221.2	Range of two half stall urinal with 5 ltr white PVC automatic flushing cistern	each	5907.51	Cement / Steel will be issued free of cost from BHEL Stores
221.3	Range of three half urinal with 10 ltr white PVC automatic flushing cistern	each	7856.63	Cement / Steel will be issued free of cost from BHEL Stores
221.4	Range of four half urinal with 10 ltr white PVC automatic flushing cistern	each	9705.43	Cement / Steel will be issued free of cost from BHEL Stores

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
222	Dismantling, Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal 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 fitting and cutting and making good the walls and floors etc. wherever required			
222.1	Single squatting plate with 5 ltr PVC automatic flushing cistern	each	2365.93	Cement / Steel will be issued free of cost from BHEL Stores
222.2	Range of two squatting plates with 5 ltr white PVC automatic flushing cistern	each	3494.86	Cement / Steel will be issued free of cost from BHEL Stores
222.3	Range of three squatting plates with 10 ltr white PVC automatic flushing cistern	each	4652.53	Cement / Steel will be issued free of cost from BHEL Stores
222.4	Range of four squatting plates with 10 ltr white PVC automatic flushing cistern	each	5683.48	Cement / Steel will be issued free of cost from BHEL Stores
223	Dismantling, 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			
223.1	White vitreous china wash basin size 630x450mm with a pair of 15 mm CP brass pillar taps	each	1332.90	
223.2	white vitreous china wash basin size 630x450mm with a single 15mm CP brass pillar tap	each	1201.70	
223.3	White vitreous china wash basin size 550x400mm with a pair of 15mm CP brass pillar tap	each	1176.10	
223.4	White vitreous china flat back wash basin size 550x400mm with single 15mm CP brass pillar tap	each	1044.90	
223.5	White vitreous china angle back wash basin size 600x480mm with single 15mm CP brass pillar tap	each	1149.45	
223.6	White vitreous china angle back wash basin size 400x400mm with single 15mm CP brass pillar tap	each	925.25	
223.7	White vitreous china flat back wash basin size 450x300mm with single 15mm CP brass pillar tap	each	940.35	
223.8	White vitreous china surgeon type wash basin of size 660x460mm with a pair of 15mm CP brass pillar tap with elbow operated levers	each	2274.85	
223.9	White vitreous china surgeon type wash basin of size 660x460mm with a pair of 15mm CP brass pillar tap with elbow operated levers ISI marked	each	1803.35	
223.1	Stainless steel AISI 304(18/8)Round basin size 405x345mm with single 15mm CP brass pillar tap	each	2264.45	
223.11	Stainless steel AISI 304(18/8) wash basin size 530x345mm with single 15mm CP brass pillar tap	each	2090.25	
224	Dismantling, Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	each	697.55	Cement / Steel will be issued free of cost from BHEL Stores
225	Dismantling, Providing and fixing kitchen sink with CI brackets CP brass china with rubber plug 40mm CP brass waste complete including painting the fittings and brackets cutting and making good the walls wherever required			
225.1	White glazed fire clay kitchen sink of size 600x450x250mm	each	1793.35	
226	Dismantling, Providing and fixing stainless steel A ISI 304(18/8) kitchen sink as per IS 13983 with CI brackets and stainless steel plug 40mm including painting of fitting and brackets cutting and making good the walls wherever required			
226.1	Kitchen sink with drain board			
226.2	510x1040mm bowl depth 250mm	each	6154.35	
226.3	510x1040mm bowl depth 225mm	each	5805.90	
226.4	510x1040mm bowl depth 200mm	each	5225.15	
226.5	460x915mm bowl depth 178mm	each	3482.90	
226.6	Kitchen sink without drain board			
226.7	610x510mm bowl depth 200mm	each	3439.20	
226.8	610x460mm bowl depth 200mm	each	3206.90	
226.9	470x420mm bowl depth 178mm	each	2161.55	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
227	Dismantling, Providing and fixing white vitreous china laboratory sink with CI brackets CP brass china with rubber plug 40mm CP brass waste and 40mm CP brass trap with necessary CP brass unions complete including painting of fitting and brackets cutting and making good the wall wherever required			
227.1	Size 450x300x150mm	each	1295.10	
227.2	Size 600x450x200mm	each	2149.95	
228	Dismantling, Providing and fixing draining board with CI brackets including painting of brackets cutting and making good the walls wherever required			
228.1	White glazed fire clay draining board of size 600x450x25mm	each	638.60	
229	Dismantling, Providing and fixing white vitreous china water closet squatting pan (indian type)			
229.1	Long pattern WC pan of size 580mm	each	534.60	
229.2	Orissa pattern WC pan of size 580x440mm	each	1010.85	
230	Extra for using coloured WC pan instead of white WC pan			
231.1	Orissa pattern WC pan 580x440mm	each	398.40	
232	Dismantling, Providing and fixing white vitreous china pedestal type (european type/ wash down type) water closet pan	each	841.25	
233	Extra for using coloured pedestal type WC pan (european type) with low level cistern of same colour instead of white vitreous china WC pan and cistern	each	876.95	
234	Dismantling, Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet			
234.1	250x130x30mm	pair	111.70	
234.2	250x125x25mm	pair	112.85	
235	Dismantling, Providing and fixing PVC low level flushing cistern with manually controlled device (handle level) conforming to IS 7231 with all fittings and fixtures complete			
235.1	10 Ltr capacity white	each	709.75	
235.2	10 Ltr capacity coloured	each	783.85	
236	Dismantling, Providing and fixing controlled flush low level cistern made of vitreous china with all fitting complete			
236.1	10 Ltr (full flush) capacity white	each	1178.80	
236.2	10 Ltr (full flush) capacity coloured	each	1665.45	
237	Dismantling, Providing and fixing solid plastic seat with lid for pedestal type WC pan complete			
237.1	white solid plastic seat with lid	each	334.95	
237.2	black solid plastic seat with lid	each	305.90	
238	Extra for Dismantling, Providing coloured other than black solid PVC plastic seat and cover in european type WC pan instead of white plastic seat and cover	Each	121.95	
239	Dismantling, Providing and fixing GI inlet connection for flush pipe connecting with WC pan	each	73.60	
240	Dismantling, Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively.	each	573.73	Cement / Steel will be issued free of cost from BHEL Stores
241	Dismantling, Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe	each	1059.21	Cement / Steel will be issued free of cost from BHEL Stores
242	Dismantling, Providing and fixing white vitreous china wash basin including making all connectons but excluding the cost of fiting			
242.1	Flat back wash basin of size 630x450mm	each	753.00	
242.2	Flat back wash basin of size 550x400mm	each	596.20	
242.3	Angle back wash basin of size 600x480mm	each	700.75	
242.4	Angle back wash basin of size 400x400mm	each	476.55	
242.5	Flat back wash basin of size 450x300mm	each	491.65	
242.6	Surgeon type wash basin of size 660x460mm	each	1014.35	
243	Dismantling, Providing and fixing kitchen sink including making all connections excluding cost of fittings			
243.1	White glazed fire clay sink of size 600x450x250mm	each	1444.00	
244	Dismantling, Providing and fixing white vitreous china laboratory sink including making all connections excluding excluding cost of fittings			
244.1	Size 450x300x150mm	each	830.75	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
244.2	Size 600x450x200mm	each	1685.60	
245	Dismantling, Providing and fixing PVC waste pipe for sink or wash basin including PVC waste fitting complete			
245.1	semi rigid pipe			
245.1.1	32mm dia	each	42.15	
245.1.2	40mm dia	each	47.95	
245.2	Nil			
245.3	Nil			
245.4	Flexible pipe			
245.4.1	32mm dia	each	46.80	
245.4.2	40mm dia	each	49.10	
246	Dismantling, Providing and fixing 100mm sand cast iron grating for gully trap	each	16.45	
247	Dismantling, Providing and fixing in position 25mm dia metre mosquito proof coupling of approved municipal design	each	28.85	
248	Dismantling, Providing and fixing 600x450mm beveled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with CP brass screws and washers complete	each	493.65	
249	Dismantling, Providing and fixing mirror of superior glass (approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing			
249.1	circular shape 450mm dia	each	599.15	
249.2	Rectangular shape 453x357mm	each	465.10	
249.3	oval shape 450x350mm (outer dimensions)	each	504.00	
249.4	Rectangular shape 1500x450mm	each	1034.50	
250	Dismantling, Providing and fixing 600x120x5mm glass shelf with edges round of supported on anodised aluminium angle frame with CP brass brackets and guard rail complete fixed with 40mm long screws rawl plugs etc. complete	each	218.80	
251	Dismantling, Providing and fixing toilet paper holder			
251.1	CP brass	each	147.10	
251.2	Vitreous china	each	173.00	
252	Dismantling, Providing and fixing soil waste and vent pipes			
252.1	100mm dia			
252.1.1	sand cast iron S&S pipe as per IS 1729	mtr	451.00	
252.1.2	Centrifugally cast (spun) iron socketed pipe as per IS 3989	mtr	730.40	
252.2	Nil			
252.3	Nil			
252.4	75mm diameter			
252.5	sand cast iron S&S pipe as per IS 1729	mtr	395.45	
252.6	Centrifugally cast (spun) iron socketed pipe as per IS 3989	mtr	629.85	
253	Dismantling, Providing and filling the joints with spun yarn cement slurry and cement mortar 1:2(1 cement 2 fine sand) in SCI/CI pipes			
253.1	75mm dia pipe	each	25.30	
253.2	100mm dia pipe	each	29.80	
254	Dismantling, Providing and fixing MS holder bat clamps of approved design to sand cast iron/cast iron(spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc.			
254.1	for 100mm dia pipe	each	65.35	
254.2	for 75mm dia pipe	each	63.00	
255	Dismantling, Providing and fixing bend of required degree with access door insertion rubber washer 3mm thick bolt and nuts complete			
255.1	100mm			
255.2	sand cast iron S&S pipe as per IS 1729	each	255.00	
255.3	sand cast iron S&S pipe as per IS 3989	each	291.00	
255.4	75mm diameter			
255.4.1	sand cast iron S&S pipe as per IS 1729	each	210.00	
255.4.2	sand cast iron S&S pipe as per IS 3989	each	230.00	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
256	Dismantling, Providing and fixing plain bend of required degree			
256.1	100mm			
256.1.1	sand cast iron S&S pipe as per IS 1729	each	222.45	
256.1.2	sand cast iron S&S pipe as per IS 3989	each	236.40	
256.2	Nil			
256.3	Nil			
256.4	75mm diametre			
256.5	sand cast iron S&S pipe as per IS 1729	each	175.15	
256.6	sand cast iron S&S pipe as per IS 3989	each	178.65	
257	Dismantling, Providing and fixing heel rest sanitary bend			
257.1	100mm			
257.2	sand cast iron S&S pipe as per IS 1729	each	244.50	
257.3	sand cast iron S&S pipe as per IS 3989	each	286.35	
257.4	75mm diametre			
257.5	sand cast iron S&S pipe as per IS 1729	each	204.20	
257.6	sand cast iron S&S pipe as per IS 3989	each	249.50	
258	Dismantling, Providing and fixing double equal junction of required degree with access door insertion rubber washer 3 mm thick bolts and nuts complete			
258.1	100x100x100x100mm			
258.2	sand cast iron S&S aa per IS 1729	each	513.85	
258.3	sand cast iron S&S as per IS 3989	each	612.55	
258.4	75x75x75mm			
258.4.1	sand cast iron S&S aa per IS 1729	each	409.75	
258.4.2	sand cast iron S&S as per IS 3989	each	487.60	
259	Dismantling, Providing and fixing double equal plain junction of required degree			
259.1	100x100x100x100mm			
259.1.1	sand cast iron S&S aa per IS 1729	each	473.35	
259.1.2	sand cast iron S&S as per IS 3989	each	558.15	
259.2	Nil			
259.3	Nil			
259.4	75x75x75mm			
259.5	sand cast iron S&S aa per IS 1729	each	356.35	
259.6	sand cast iron S&S as per IS 3989	each	445.75	
260	Dismantling, Providing and fixing single equal plain junction of required degree with access door insertion rubber washer 3 mm thick bolts and nuts complete			
260.1	100x100x100x100mm			
260.2	sand cast iron S&S aa per IS 1729	each	374.60	
260.3	sand cast iron S&S as per IS 3989	each	489.60	
260.4	75x75x75mm			
260.4.1	sand cast iron S&S aa per IS 1729	each	283.15	
260.4.2	sand cast iron S&S as per IS 3989	each	364.45	
260.5	Nil			
260.6	Nil			
260.7	Dismantling, Providing and fixing single equal plain junction of required degree			
260.8	100x100x100mm			
260.8.1	sand cast iron S&S aa per IS 1729	each	323.50	
260.8.2	sand cast iron S&S as per IS 3989	each	442.00	
260.9	Nil			
260.1	Nil			
260.11	75x75x75mm			
260.12	sand cast iron S&S aa per IS 1729	each	250.65	
260.13	sand cast iron S&S as per IS 3989	each	333.10	
261	Dismantling, Providing and fixing double unequal junction of required degree with access door insertion rubber washer 3mm thick bolts and nut complete			
261.1	100x100x75x75mm			
261.1.1	sand cast iron S&S aa per IS 1729	each	555.80	
261.1.2	sand cast iron S&S as per IS 3989	each	842.70	
261.2				
261.3				

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
261.4	Dismantling, Providing and fixing double unequal plain junction of required degree			
261.4.1	100x100x75x75mm			
261.4.1.1	sand cast iron S&S aa per IS 1729	each	507.00	
261.4.1.2	sand cast iron S&S as per IS 3989	each	757.90	
262	Dismantling, Providing and fixing single unequal junction of required degree with access door insertion rubber washer 3mm thick bolts and nut complete			
262.1	100x100x75mm			
262.1.1	sand cast iron S&S aa per IS 1729	each	402.50	
262.1.2	sand cast iron S&S as per IS 3989	each	637.10	
263	Dismantling, Providing and fixing single unequal junction of required degree			
263.1	100x100x75mm			
263.1.1	sand cast iron S&S aa per IS 1729	each	350.20	
263.1.2	sand cast iron S&S as per IS 3989	each	551.15	
264	Dismantling, Providing and fixing double equal plain invert branch of required degree			
264.1	100x100x100x100mm			
264.1.1	sand cast iron S&S aa per IS 1729	each	505.85	
264.1.2	sand cast iron S&S as per IS 3989	each	496.55	
264.2	Nil			
264.3	Nil			
264.4	75x75x75x75mm			
264.4.1	sand cast iron S&S aa per IS 1729	each	377.25	
264.4.2	sand cast iron S&S as per IS 3989	each	400.50	
265	Dismantling, Providing and fixing single equal plain invert branch of required degree			
265.1	100x100x100mm			
265.1.1	sand cast iron S&S aa per IS 1729	each	388.55	
265.1.2	sand cast iron S&S as per IS 3989	each	393.20	
265.2	Nil			
265.3	Nil			
265.4	75x75x75mm			
265.4.1	sand cast iron S&S aa per IS 1729	each	290.15	
265.4.2	sand cast iron S&S as per IS 3989	each	299.15	
266	Dismantling, Providing and fixing double unequal invert branch of required degree			
266.1	100x100x75x75mm			
266.2	sand cast iron S&S aa per IS 1729	each	547.70	
266.3	sand cast iron S&S as per IS 3989	each	682.40	
267	Dismantling, Providing and fixing single unequal plain invert branch of required degree			
267.1	100x100x75mm			
267.2	sand cast iron S&S aa per IS 1729	each	459.40	
267.3	sand cast iron S&S as per IS 3989	each	505.85	
268	Dismantling, Providing and fixing sand cast iron and S&S off sets as per IS 1729			
268.1	76mm off sets			
268.1.1	with 75mm dia pipe	each	158.90	
268.1.2	with 100mm dia pipe	each	268.05	
268.2	Nil			
268.3	Nil			
268.4	114mm off sets			
268.4.1	with 75mm dia pipe	each	271.25	
268.4.2	with 100mm dia pipe	each	351.40	
268.5	Nil			
268.6	Nil			
268.7	152mm off sets			
268.7.1	with 75mm dia pipe	each	340.25	
268.7.2	with 100mm dia pipe	each	440.15	
269	Dismantling, Providing and fixing sand cast iron S&S off sets as per IS 3989			
269.1	75mm off sets			
269.1.1	with 75mm dia pipe	each	220.45	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
269.3	150mm off sets			
269.3.1	with 75mm dia pipe	each	277.75	
269.3.2	with 100mm dia pipe	each	374.15	
270	Dismantling, Providing and fixing door piece insertion rubber washer 3mm thick bolts and nuts complete			
270.1	100mm			
270.1.1	sand cast iron S&S pipe as per IS 1729	each	367.65	
270.1.2	sand cast iron S&S pipe as per IS 3989	each	296.80	
270.2	Nil			
270.3	Nil			
270.4	75mm			
270.4.1	sand cast iron S&S pipe as per IS 1729	each	268.80	
270.4.2	sand cast iron S&S pipe as per IS 3989	each	227.40	
271	Dismantling, Providing and fixing terminal guard			
271.1	100mm			
271.1.1	sand cast iron S&S pipe as per IS 1729	each	192.25	
271.1.2	sand cast iron S&S pipe as per IS 3989	each	194.60	
271.2	Nil			
271.3	Nil			
271.4	75mm			
271.4.1	sand cast iron S&S pipe as per IS 1729	each	139.15	
271.4.2	sand cast iron S&S pipe as per IS 3989	each	177.45	
272	Dismantling, Providing and fixing collar			
272.1	100mm			
272.1.1	sand cast iron S&S pipe as per IS 1729	each	143.45	
272.1.2	sand cast iron S&S pipe as per IS 3989	each	202.70	
272.2	Nil			
272.3	Nil			
272.4	75mm			
272.5	sand cast iron S&S pipe as per IS 1729	each	107.80	
272.6	sand cast iron S&S pipe as per IS 3989	each	146.10	
273	Dismantling, Providing lead caulked joints to sand cast iron rain centrifugally cast (spun) iron pipes and fitting of diameter			
273.1	100mm	each	126.50	
273.2	75mm	each	107.80	
273.3	50mm	each	86.60	
274	Dismantling, Providing and fixing MS stays and clamps for sand cast iron / centrifugally cast (spun) iron pipes of diameter			
274.1	100mm	each	48.25	
274.2	75mm	each	41.55	
274.3	50mm	each	34.25	
275	Dismantling, Providing and fixing trap of self cleansing design with screws down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors			
275.1	100mm inlet and 100mm outlet			
275.1.1	sand cast iron S&S as per IS 3989	each	531.25	Cement / Steel will be issued free of cost from BHEL Stores
275.1.2	sand cast iron S&S pipe as per IS 1729	each	429.05	Cement / Steel will be issued free of cost from BHEL Stores
275.2	Nil			
275.3	Nil			
275.4	Distemping with 1st quality acrylic washable distemper (ready mixed) of approved manufacture and of required shade and colour complete as per manufacturer specification			
275.4.1	sand cast iron S&S as per IS 3989	each	573.35	
275.4.2	sand cast iron S&S pipe as per IS 1729	each	375.90	
276	cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6(1 cement 3 coarse sand 6 grade stone aggregate 12.5 mm nominal size) including necessary plaster and painting in cement mortar 1:4(1 cement 4 coarse sand)			
276.1	100mm	mtr	124.26	Cement / Steel will be issued free of cost from BHEL Stores

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
276.2	75mm	mtr	89.54	Cement / Steel will be issued free of cost from BHEL Stores
276.3	50mm	mtr	58.64	Cement / Steel will be issued free of cost from BHEL Stores
277	painting CI cistern with bitumastic or any other anti corrosive paint inside and white paint over a coat of zinc chromate yellow primer (of approved quality) on the outside surface of the cistern flush pipe other fitting etc. complete for new work	each	215.15	
278	Re-painting CI cistern with bitumastic or any other anti corrosive paint inside and white paint on the outside surface of the cistern flush pipe other fitting etc. complete including polishing of wooden seat and lid and cleaning of WC pan with acid wherever necessary	each	148.55	
279	Repainting CI cistern with synthetic enamel paint of approved colour brand and manufacture on the outside surface fo cistern flush pipe other fitting etc. complete	each	65.75	
280	painting sand cast iron / centrifugally cast (spun) iron soil waste vent pipes and fitting with paint of any colour such as chocolate grey or buff etc, over a coat of primer(of approved quality) for new work			
280.1	100mm dia meter pipes	mtr	17.85	
280.2	75mm dia metre pipe	mtr	13.70	
281	Repainting sand cast iron / centrifugally cast iron (spun) iron soil waste vent pipes and fitting with paint of any colour such as chocolate grey or buff etc.			
281.1	100mm dia meter pipes	mtr	9.30	
281.2	75mm dia metre pipe	mtr	7.00	
282	Repainting bath tub of size 1700x730x430mm with enamel paint	each	208.45	
283	Dismantling, 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			
283.1	white vitreous china dual purpose WC pan with white solid plastic seat and lid with white vitreous china flushing cistern and CP flush bend	each	4142.20	
284	Dismantling, Providing and fiixing PTMT waste coupling for wash basin and sink of approved quality and colour			
284.1	waste coupling 31mm of 79mm length and 62mm breadth weighing not less than 45 grms	each	75.80	
284.2	waste coupling 38mm of 83mm length and 77mm breadth weighing not less than 60grms	each	100.20	
285	Dismantling, Providing and fixing PTMT bottle trap for wash basin and sink			
285.1	Bottle trap 31mm single piece moulded with height of 270mm effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal weighinng not less than 260 grms	each	366.20	
285.2	Bottle trap 38mm single piece moulded with height of 270mm effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal weighinng not less than 263 grms	each	395.25	
286	Dismantling, Providing and fixing PTMT liquid soap container 109mm wide 125mm high and 112mm distance from wall of standard shape with bracket of the same material with snap fitting of approved quality and colour weighing not less than 105grms	each	164.65	
287	Dismantling, Providing and fixing PTMT towel ring trapezoidal shape 215mm long 200mm wide with a minimum distances of 37mm from wall face with concealed fitting arrangement of approved quality and colour weighing not less than 88 grms	each	149.00	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
288	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			
288.1	450mm long towel rail with total length of 495mm 78mm wide and effective height of 88mm weighing not less than 170grms	each	294.65	
288.2	600mm long towel rail with total length of 645mm width 78mm and effective height of 88mm weighing not less than 190grms	each	329.50	
289	Dismantling, Providing and fixing PTMT shelf 440mm long 124mm width and 36 mm height of approved quality and colour weighing not less than 300 grams	each	370.15	
290	Dismantling, Providing and fixing PTMT 15mm urinal spreader size 95x69x100mm with 1/2" BSP thread and shapes weighing not less than 60 grms	each	147.25	
291	Dismantling, Providing and fixing PTMT urinal cock of approved quality and colour			
291.1	15mm nominal bore 80mm long 42mm high and 30mm wide with BSP female threads weighing not less than 48grm	each	113.90	
292	Dismantling, Providing and fixing MS holder bat clamp of approved design to sand cast iron cast iron (spun) pipes comprising of MS flat brackets made of 50x5mm flat of specified shape projecting 75mm outside the wall surface and fixed on wall with 4nos 6mm dia expansion hold fasteners including drilling necessary holes in brick wall CC/RCC surface and the cost of bolts etc. the pipe shall be fixed to the already fixed brackets with the help of 30mm x 1.6mm galvanised MS flats of specified shape and of total length 420mm and shall be fixed with MS nuts bolts and washers of size of size 25x6mm , one bolts on each side of the pipe			
292.1	total bracket length 580mm of approved shape and design (for single 100mm dia pipe)	each	121.70	
292.2	total bracket length 810mm of approved shape and design (for two 100mm dia pipes)	each	148.05	
292.3	total bracket length 1040mm of approved shape and design (for three 100mm dia pipes)	each	174.35	
293	Dismantling the spoiled AC specials and replacing with approved quality new ones in CM 1:1 including chasing brick masonry / concrete, making good in CM including cost of all materials etc complete for all specials for 100 mm (4") dia all as directed by Engineer-in-charge.	Each	168.29	
294	Dismantling the spoiled AC specials and replacing with approved quality new ones in CM 1:1 including chasing brick masonry / concrete, making good in CM including cost of all materials etc complete for all specials for 75 mm (3") dia all as directed by Engineer-in-charge. (Nahany trap and PVC Pipe if replaced will be measured separately)	Each	153.66	
295	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)	Each	177.55	
296	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.	Admn. approval 010-11		
297	Wash hand basins of size 22"x16" (without fittings) (Material will be free issue by BHEL)	Each		
298	Wash hand basins of size 18"x12" (without fittings).	Each		
299	Indian water closet 630 mm / 580 mm (Material will be free issue by BHEL)	Each		
300	fixing European Water closets complete all as directed by Engineer-in-charge. (Material will be free issue by BHEL)	Each		
301	Standing type white glazed flat back urinals.	Each		
302	Porcelain 'P' trap of size 4"	Each		

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
303	Orissa Pan of approved make and size 580 x 440 mm (Material will be free issue by BHEL)	Each		
304	SWG gully traps 6"x6" or 4"x4" with CI frame and cover.	Each		
305	Fixing of white coloured PVC low level flushing cistern 10 lit capacity supplied from BHEL stores complete all as directed by Engineer-in-charge.	Each		Flush Tanks will be issued free of cost from BHEL stores
306	Fixing of coloured PVC low level flushing cistern 10 lit capacity supplied from BHEL stores complete all as directed by Engineer-in-charge.	Each		Flush Tanks will be issued free of cost from BHEL stores
307	Polished shahabad stone sinks of 1/2" tick, 24" x 18" x 7" including proper fixing (without fittings).	Each		
308	Dismantling and replacing with new ones of approved make including cost of all materials etc complete all as directed by Engineer-in-charge.			
308.1	1/2" C.P. pillar taps (500 gms) SEIKO DELUX HEAVY DUTY.	Each		
308.2	1/2" brass stop cock (400 gms)	Each		
308.3	3/4" brass stop cock.	Each		
308.4	1/2" X 18" PVC pipe connections. (Heavy duty).	Each		
308.5	PVC flexible pipe 32 mm dia.	Each		
308.6	3/4" polymer ball cock of ISI makes approved brand.	Each		
308.7	1/2" polymer ball cock of ISI makes approved brand.	Each		
308.8	E.W.C seat covers (solid) of any shade.	Each		
308.9	CP consealed stock cock 1/2" dia with internal brass threadings.	Each		
308.1	Hot and cold mixing vlave of SEIKO DELUX make.	Each		
308.11	C.P. waste coupling 1 1/4" dia (32 mm).	Each		
308.12	C.P. Nahani trap jalise 5" dia.	Each		
308.13	Hot water connections.	Each		
308.14	C.I. brackets.	Each		
308.15	Porcelain foot rests 250 x 125 x 25 mm	Each		
308.16	1/2" C.I bib taps with brass internal, turning (Alto brand or equivalent).	Each		
308.17	1/2" Polymet bib taps (PTMT material) prayag make.	Each		
308.18	PVC shower swing type for the 1/2" 3/4" pipe (Prayag make).	Each		
308.19	1/2" C.I. stop cock with brass internal turnings (Alto or equivalent brand).	Each		
308.2	PVC syphon set suitable for PVC/CI law down flush tank of 10 litres capacity with all fittings etc.	Each		
309	Supplying and fixing of PVC balls ISI marked for ball cocks in over head tanks and flush tanks for 20 mm dia.etc. complete all as directed by Engineer-in-charge.	Each		
310	Supplying and fixing CI Nahany trap 76 mm (3") dia in cement concrete 1:2:4 and 12.7 mm (5") dia CI grating hinged to Nahany trap including breaking of the flooring and redoing the same wherever necessary etc complete all as directed by Engineer-in-charge.	Each		
311	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.	One Rmt		
312	Supplying and fixing Telephonic shower including cost of all materials and fixtures and fittings etc complete all as directed by Engineer-in-charge.	Each		
313	Providing PVC storage tank covers located over the buildings to suit existing PVC storage tanks with nut and bolts etc complete all as directed by Engineer-in-charge.	Each		
314	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.	Rmt		

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
315	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.	Rmt		
316	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.			
316.1	75 mm dia plain bend.	Each		
316.2	75 mm dia plug bend.	Each		
316.3	75 mm dia off-set.	Each		
316.4	75 mm dia Single 'Y' with door.	Each		
316.5	75 mm dia pipe clip.	Each		
316.6	75 mm dia single tee with door.	Each		
316.7	110 mm dia plain bend.	Each		
316.8	110 mm dia plug bend.	Each		
316.9	110 mm dia Single 'Y' with door.	Each		
316.1	110 mm dia Double 'Y' with door.	Each		
316.11	110 mm dia off-set.	Each		
316.12	110 mm dia vent cowl.	Each		
316.13	110 mm dia pipe clip.	Each		
316.14	110 mm dia single tee with door.	Each		
316.15	110 mm dia coupler.	Each		
WATER SUPPLY WORKS				
317	Providing and fixing Polyethene -Aluminium-Polythelene(PE-AL-PE) Complete Pressure Pipe conforming to IS -15450 U.V.stabilized for hot & cold water supply, capable to withstand temperature up to 80 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamp at 1.00 metre spacing. This includes testing of joint complete as per direction of the Engineer in charge			
	Internal work-Exposed on wall			
317.1	1216(16mm OD) pipe	metre	146.65	
317.2	1620 (20 mm OD) pipe	metre	176.45	
317.3	2025 (25 mm OD) pipe	metre	222.85	
317.4	2532 (32 mm OD) pipe	metre	297.50	
317.5	3240 (40 mm OD) pipe	metre	391.30	
317.6	4050 (50 mm OD) pipe	metre	507.60	
318	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V.stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge.			
	Comcealed work including cutting chases and making good the wall etc.			
318.1	1216 (16mm OD)Pipe	metre	224.25	
318.2	1620 (20 mm OD) pipe	metre	260.85	
318.3	2025(25mm OD) Pipe	metre	319.80	
318.4	2532(32mm OD) Pipe	metre	413.30	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
319	Providing and fixing Polyethene -Aluminium-Polythelene(PE-AL-PE) Complete Pressure Pipe conforming to IS -15450 U.V.stabilized with carbon black having thermal stability for hot and cold water supply capable to withstand temperature upto 80°C including all special fitting of composite material (engineering plastic blend and brass inserts wherever required) e.g elbows tees reducers couplers and connectors etc, with trenching refilling and testing of joints complete as per direction of the engineer in charge			
	External work			
319.1	1216(16mm OD) pipe	mtr	143.95	
319.2	1620 (20 mm OD) pipe	mtr	171.10	
319.3	2025 (25 mm OD) pipe	mtr	214.90	
319.4	2532 (32 mm OD) pipe	mtr	284.35	
319.5	3240 (40 mm OD) pipe	mtr	371.50	
319.6	4050 (50 mm OD) pipe	mtr	487.75	
320	providing and fixing 3 layer PP-R(poly propylene Random copolymer) pipes SDR 7.4 U V stabilized and anti - microbial fusion welded having thermal stability for hot and cold water supply including all PP-R plain and brass threaded polypropylene random fitting i/c fixing the pipe with clamps at 1.00 m spacing. this including testing of joints complete as per direction of engineer in charge			
	Internal work-Exposed on wall			
320.1	PP--16 pipe, 16mm OD	mtr	71.15	
320.2	PP--16 pipe, 20mm OD	mtr	96.40	
320.3	PP--16 pipe, 25mm OD	mtr	135.30	
320.4	PP--16 pipe, 32mm OD	mtr	205.40	
320.5	PP--16 pipe, 40mm OD	mtr	314.30	
320.6	PP--16 pipe, 50mm OD	mtr	436.60	
321	providing and fixing 3 layer PP-R(poly propylene Random copolymer) pipes SDR 7.4 U V stabilized and anti - microbial fusion welded having thermal stability for hot and cold water supply including all PP-R plain and brass threaded polypropylene random fitting i/c fixing the pipe with clamps at 1.00 m spacing. this including testing of joints complete as per direction of engineer in charge Concealed work including cutting chases and making good the walls etc.			
321.1	PP--16 pipe, 16mm OD	mtr	122.65	
321.2	PP--16 pipe, 20mm OD	mtr	153.10	
321.3	PP--16 pipe, 25mm OD	mtr	201.90	
321.4	PP--16 pipe, 32mm OD	mtr	289.30	
322	Providing and fixing 3 layer PP-R(poly propylene Random copolymer) pipes UV stablized and anti - microbial fusion welded having thermal stability for hot and cold water supply including all PP-R plain and brass threaded polypropylene random fitting including trenching refilling and testing of joints complete as per direction of engineer in charge			
322.1	PN - 16 pipe, 16mm OD (SDR-7.4)	mtr	68.45	
322.2	PN - 16 pipe, 20mm OD (SDR-7.4)	mtr	91.10	
322.3	PN - 16 pipe, 25mm OD (SDR-7.4)	mtr	129.45	
322.4	PN - 16 pipe, 32mm OD (SDR-7.4)	mtr	194.40	
322.5	PN - 16 pipe, 40mm OD (SDR-7.4)	mtr	294.50	
322.6	PN - 16 pipe, 50mm OD (SDR-7.4)	mtr	416.80	
322.7	PN - 16 pipe, 63mm OD (SDR-7.4)	mtr	639.50	
322.8	PN - 16 pipe, 75mm OD (SDR-7.4)	mtr	903.70	
322.9	PN - 16 pipe, 90mm OD (SDR-7.4)	mtr	1431.50	
322.1	PN - 10 pipe, 110mm OD (SDR-11)	mtr	1499.45	
322.11	PN - 10 pipe, 160mm OD (SDR-11)	mtr	3134.30	
	C.P.V.C Pipes			

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
323	Providing and fixing chlorinted polyvinyl chloride (CVCV) pipes , having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fitting including of pipes with clamps at 1.00m spacing. This including jointing of pipes and fitting with one step CPVC solvent cement and testing of joints completes as per direction of engineer in charge			
	Internal work-Exposed on wall			
323.1	15mm nominal outer dia. Pipes	mtr	97.95	
323.2	20mm nominal outer dia. Pipes	mtr	115.65	
323.3	25mm nominal outer dia. Pipes	mtr	150.40	
323.4	32mm nominal outer dia. Pipes	mtr	196.35	
323.5	40mm nominal outer dia. Pipes	mtr	275.05	
323.6	50mm nominal outer dia. Pipes	mtr	418.50	
324	providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain and brass threaded fitting i/c fixing the pipe with clamps at 1.00m spacing. This including jointing of pipes and fitting with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of engineer in charge			
	Concealed work including cutting chases and making good the walls etc.			
324.1	15mm nominal outer dia. Pipes	mtr	155.15	
324.2	20mm nominal outer dia. Pipes	mtr	175.50	
324.3	25mm nominal outer dia. Pipes	mtr	222.25	
324.4	32mm nominal outer dia. Pipes	mtr	277.10	
325	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain and brass threaded fitting this including jointing of pipes and fitting with one step CPVC solvent cement trenching refilling and testing of joints complete as per direction of engineer in charge.			
325.1	15mm nominal outer dia. Pipes	mtr	92.60	
325.2	20mm nominal outer dia. Pipes		107.70	
325.3	25mm nominal outer dia. Pipes		144.55	
325.4	32mm nominal outer dia. Pipes		185.30	
325.5	40mm nominal outer dia. Pipes		255.25	
325.6	50mm nominal outer dia. Pipes		398.65	
325.7	62.50mm nominal outer dia. Pipes		1217.80	
325.8	75mm nominal outer dia. Pipes		1590.75	
325.9	100mm nominal outer dia. Pipes		2206.10	
325.1	150mm nominal outer dia. Pipes		3831.90	
326	Providing and fixing GI pipes complete with GI fitting and clamps including cutting and making good the walls etc. Internal work-Exposed on wall			
326.1	15mm nominal bore	mtr	105.85	
326.2	20mm nominal bore	mtr	133.85	
326.3	25mm nominal bore	mtr	179.65	
326.4	32mm nominal bore	mtr	226.10	
326.5	40mm nominal bore	mtr	264.05	
326.6	50mm nominal bore	mtr	342.90	
327	Concealed pipe including painting with anti corrosive bitumstic paint cutting chases and making good the wall			
327.1	15mm dia nominal bore	mtr	144.75	
327.2	20mm dia nominal bore	mtr	170.15	
328	Providing and fixing GI pipe complete with GI fitting including trenching and refilling etc. External work			
328.1	15mm nominal bore	mtr	94.05	
328.2	20mm nominal bore	mtr	116.60	
328.3	25mm nominal bore	mtr	156.85	
328.4	32mm nominal bore	mtr	193.60	
328.5	40mm nominal bore	mtr	219.60	
328.6	50mm nominal bore	mtr	280.10	
328.7	65mm nominal bore	mtr	356.15	
328.8	80mm nominal bore	mtr	458.15	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
329	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			
329.1	25 to 40mm nominal bore	each	166.05	
329.2	50 to 80mm nominal bore	each	423.20	
330	Fixing water and stop cock in GI pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately)	each	121.90	
331	Providing and fixing brass bib cock of approved quality:			
331.1	15 mmnominal bore	each	191.70	
331.2	20 mm nominal bore	each	235.20	
332	Providing and fixing brass stop cock of approved quality :			
332.1	15 mmnominal bore	each	191.70	
332.2	20 mm nominal bore	each	235.20	
333	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)			
333.1	25 mm nominal bore	each	285.50	
333.2	32 mm nominal bore	each	358.00	
333.3	40 mm nominal bore	each	399.00	
333.4	50 mm nominal bore	each	578.20	
333.5	65 mm nominal bore	each	831.75	
333.6	80 mm nominal bore	each	1369.25	
334	Providingand fixing ball vaive (brass) of approved quality ,High or low pressure ,with plastic floats complete :			
334.1	15 mmnominal bore	each	228.35	
334.2	20 mm nominal bore	each	333.25	
334.3	25 mm nominal bore	each	385.90	
335	Providing and fixing gun metal non return of approved quality (screwed end)			
335.1	25 mm nominal bore			
335.1.1	Horizontal	each	292.15	
335.1.2	vertical	each	317.70	
335.2	Nil			
335.3	Nil			
335.4	32 mm nominal bore			
335.4.1	Horizontal	each	371.45	
335.4.2	vertical	each	464.40	
335.5	Nil			
33.56	Nil			
335.7	40 mm nominal bore			
335.7.1	Horizontal	each	494.95	
335.7.2	vertical	each	605.30	
335.8	Nil			
335.9	Nil			
335.1	50 mm nominal bore			
335.10.1	Horizontal	each	738.20	
335.10.2	vertical	each	847.40	
335.11	Nil			
335.12	Nil			
335.13	65 mm nominal bore			
335.13.1	Horizontal	each	1282.10	
335.13.2	vertical	each	1467.95	
335.14	Nil			
335.15	Nil			
335.16	80 mm nominal bore			
335.16.1	Horizontal	each	1812.25	
335.16.2	vertical	each	#VALUE!	
336	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main			
336.1	15 mmnominal bore	each	139.75	
336.2	20 mm nominal bore	each	187.20	
336.3	25 mm nominal bore	each	243.70	
337	Providing and fixing uplasticised PVC connection pipe with brass unions			
337.1	30 cm length			

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
337.2	15 mm nominal bore	each	35.10	
337.3	20 mm nominal bore	each	43.25	
337.4	45 cm length			
337.5	15 mm nominal bore	each	44.75	
337.6	20 mm nominal bore	each	56.35	
338	Providing and fixing CP brass shower rose with 15 or 20mm inlet			
338.1	100 mm dia meter	each	40.40	
338.2	150 mm dia meter	each	55.80	
339	laying in position centrifugally cast spun iron S&S or flanged pipes(excluding cost of pipe)	quintal	55.55	
340	Laying in position S&S or flanged CI special such as tees bends collars tapers and caps etc. (excluding cost fo specials)	quintal	100.25	
341	Providing and laying S&S CI standard specials such as tees bends collars tapers caps etc., (Heavy class)			
341.1	Upto 300mm dia	quintal	2893.35	
341.2	over 300mm dia	quintal	3119.85	
343	Providing and laying flanged CI standard specials such as tees bends collars tapers caps etc. suitable for flanges jointing as per IS 1538			
343.1	Upto 300mm dia	quintal	5123.45	
343.2	over 300mm dia	quintal	5648.45	
344	Providing and laying S&S centrifugly cast (spun) iron pipes (class LA) conforming to IS 1536			
344.1	100 mm dia pipe	mtr	737.15	
344.2	125 mm dia pipe	mtr	902.35	
344.3	150 mm dia pipe	mtr	1066.65	
344.4	200 mm dia pipe	mtr	1484.00	
344.5	250 mm dia pipe	mtr	2106.80	
344.6	300 mm dia pipe	mtr	2800.00	
344.7	350 mm dia pipe	mtr	3455.55	
344.8	400 mm dia pipe	mtr	4233.20	
344.9	450 mm dia pipe	mtr	5065.65	
344.1	500 mm dia pipe	mtr	6165.95	
344.11	600 mm dia pipe	mtr	8149.40	
345	Providing lead caulked joints to spun iron or CI pipes and specials including testing of joints but excluding the cost of pig lead			
345.1	100 mm diameter pipe	each	82.25	
345.2	125 mm diameter pipe	each	120.45	
345.3	150 mm diameter pipe	each	123.30	
345.4	200 mm diameter pipe	each	163.45	
345.5	250 mm diameter pipe	each	204.20	
345.6	300 mm diameter pipe	each	246.35	
345.7	350 mm diameter pipe	each	256.00	
345.8	400 mm dia meter pipe	each	332.10	
345.9	450 mm diameter pipe	each	371.60	
345.1	500 mm dia meter pipe	each	393.70	
345.11	600 mm diameter pipe	each	528.40	
346	Supplying pig lead at site of work	quintal	6742.20	
347	Providing flanged joints to double flanged CI / DI pipes and specials including testing of joints			
347.1	80 mm diameter pipe	each	65.60	
347.2	100 mm diameter pipe	each	113.00	
347.3	125 mm diameter pipe	each	114.15	
347.4	150 mm diameter pipe	each	156.90	
347.5	200 mm diameter pipe	each	162.70	
347.6	250 mm diameter pipe	each	236.75	
347.7	300 mm diameter pipe	each	246.05	
347.8	350 mm diameter pipe	each	335.05	
347.9	400 mm dia meter pipe	each	564.20	
347.1	450 mm diameter pipe	each	702.00	
347.11	500 mm dia meter pipe	each	778.45	
347.12	600 mm diameter pipe	each	892.00	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
348	Providing and fixing CI sluice valves (with cap) complete with bolts nuts rubber insertions etc. (the tail pieces if required will be paid separately)			
348.1	100 mm dia pipe			
348.1.1	Class I	each	2468.05	
348.1.2	Class II	each	2550.45	
348.2	Nil			
348.3	Nil			
348.4	125 mm dia pipe			
348.4.1	Class I	each	3034.75	
348.4.2	Class II	each	3163.60	
348.5	Nil			
348.6	Nil			
348.7	150 mm dia pipe			
348.7.1	Class I	each	3689.10	
348.7.2	Class II	each	3889.75	
348.8	Nil			
348.9	Nil			
348.1	200 mm dia pipe			
348.10.1	Class I	each	6731.80	
348.10.2	Class II	each	7221.20	
348.11	Nil			
348.12	Nil			
348.13	250 mm dia pipe			
348.13.1	Class I	each	10013.80	
348.13.2	Class II	each	10240.90	
348.14	Nil			
348.15	Nil			
348.16	300 mm dia pipe			
348.16.1	Class I	each	12270.50	
348.16.2	Class II	each	12718.30	
349	Constructing masonry chamber 30x30x50 cm inside with 75 class designation brick work in cement mortar 1:4(1 cement 4 coarse sand) for stop cock with CI surface box 100x100x75mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) and 12mm thick finished with a floating coat of neat cement complete as per standard design			
349.1	With FPS bricks	each	464.08	Cement / Steel will be issued free of cost from BHEL Stores
350	Constructing masonry chamber 60x60x75 cm inside with 75 class designation brick work in cement mortar 1:4 (1 cement 4 coarse sand) for sluice valve with CI surface box 100mm top diameter 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3(1 cement 3 coarsed sand) 12mm thick finished with a floating coat of neat cement complete as per standard design			
350.1	With FPS bricks	each	2843.62	Cement / Steel will be issued free of cost from BHEL Stores

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
351	Constructing masonry chamber 90x90x100 cm inside with 75 class designation brick work in cement mortar 1:4 (1 cement 4 coarse sand) for sluice valve with CI surface box 100mm top diameter 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3(1 cement 3 coarsed sand) 12mm thick finished with a floating coat of neat cement complete as per standard design			
351.1	With FPS bricks	each	4853.39	Cement / Steel will be issued free of cost from BHEL Stores
352	Constructing masonry chamber 120x120x100 cm inside with 75 class designation brick work in cement mortar 1:4 (1 cement 4 coarse sand) for sluice valve with CI surface box 100mm top diameter 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3(1 cement 3 coarsed sand) 12mm thick finished with a floating coat of neat cement complete as per standard design			
352.1	With FPS bricks	each	6701.75	Cement / Steel will be issued free of cost from BHEL Stores
353	Constructing masonry chamber 60x60x75 cm inside with 75 class designation brick work in cement mortar 1:4 (1 cement 4 coarse sand) for sluice valve with CI surface box 100mm top diameter 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3(1 cement 3 coarsed sand) 12mm thick finished with a floating coat of neat cement complete as per standard design			
353.1	With FPS bricks	each	2710.05	Cement / Steel will be issued free of cost from BHEL Stores
354	Constructing masonry chamber 60x45x50 cm inside with 75 class designation brick work in cement mortar 1:4 (1 cement 4 coarse sand) for sluice valve with CI surface box 100mm top diameter 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3(1 cement 3 coarsed sand) 12mm thick finished with a floating coat of neat cement complete as per standard design			
354.1	With FPS bricks	each	2666.52	Cement / Steel will be issued free of cost from BHEL Stores
355	Painting GI pipes and fitting with synthetic enamel white paint over a ready mixed priming coat both of approved quality for new work			
355.1	15 mm diameter pipe	mtr	4.65	
355.2	20 mm diameter pipe	mtr	5.45	
355.3	25 mm diameter pipe	mtr	7.20	
355.4	32 mm diameter pipe	mtr	8.50	
355.5	40 mm diameter pipe	mtr	10.10	
355.6	50 mm diameter pipe	mtr	11.80	
356	Repainting GI pipes and fitting with synthetic enamel white paint of approved quality			
355.1	15 mm diameter pipe	mtr	2.45	
355.2	20 mm diameter pipe	mtr	2.85	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
355.3	25 mm diameter pipe	mtr	3.70	
355.4	32 mm diameter pipe	mtr	4.30	
355.5	40 mm diameter pipe	mtr	5.05	
355.6	50 mm diameter pipe	mtr	5.90	
356.7	Painting GI pipes and fitting two coats of anti corrosive bitumastic paint of approved quality			
356.7.1	15 mm diameter pipe	mtr	2.60	
356.7.2	20 mm diameter pipe	mtr	3.05	
356.7.3	25 mm diameter pipe	mtr	3.90	
356.7.4	32 mm diameter pipe	mtr	4.55	
356.7.5	40 mm diameter pipe	mtr	5.20	
356.7.6	50 mm diameter pipe	mtr	6.10	
356.7.7	40 mm diameter pipe	mtr	7.50	
356.7.8	50 mm diameter pipe	mtr	8.65	
357	Providing and filling sand of grading Zone V or coarse grade all round the GI pipes in external work			
357.1	15 mm diameter pipe	mtr	21.95	
357.2	20 mm diameter pipe	mtr	22.25	
357.3	25 mm diameter pipe	mtr	22.85	
357.4	32 mm diameter pipe	mtr	23.40	
357.5	40 mm diameter pipe	mtr	23.70	
357.6	50 mm diameter pipe	mtr	24.60	
357.7	65 mm diameter pipe	mtr	38.85	
357.8	80 mm diameter pipe	mtr	40.00	
357.9	100 mm diameter pipe	mtr	42.40	
357.1	150 mm diameter pipe	mtr	63.15	
358	Boring with 100mm diametre casting pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casting pipe after the hand pipe / tube well is lowered and tested			
358.1	Upto 6mtr depth	mtr	151.00	
358.2	Beyond 6m and upto 12m depth	mtr	179.25	
358.3	Beyond 12m and upto 18m depth	mtr	208.70	
359	Providing and placing in position filters of 40mm diameter GI pipe with brass strainer of approved quality	mtr	367.35	
360	Providing and fixing to filler and lowering to proper levels 40mm GI pipe for tube well including clearing and priming the tube well	mtr	209.00	
361	Providing and placing in position hand pump of approved quality for 40mm diameter GI pipe complete with all accessories	each	576.80	
362	Providing and fixing GI union in GI pipe including cutting and threading the pipe and making long screws etc, complete (new work)			
362.1	15 mm nominal bore	each	75.90	
362.2	20 mm nominal bore	each	96.80	
362.3	25 mm nominal bore	each	107.25	
362.4	32 mm nominal bore	each	123.55	
362.5	40 mm nominal bore	each	164.20	
362.6	50 mm nominal bore	each	235.60	
362.7	65 mm nominal bore	each	428.40	
362.8	80 mm nominal bore	each	507.40	
362.9	Providing and fixing GI union in existing GI pipe line cutting and threading the pipe and making long screws including excavation refilling the earth or cutting of wall and making good the same complete wherever required			
362.9.1	15 mm nominal bore	each	149.20	
362.9.2	20 mm nominal bore	each	170.10	
362.9.3	25 mm nominal bore	each	180.55	
362.9.4	32 mm nominal bore	each	196.80	
362.9.5	40 mm nominal bore	each	237.45	
362.9.6	50 mm nominal bore	each	335.50	
362.9.7	65 mm nominal bore	each	528.30	
362.9.8	80 mm nominal bore	each	607.30	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
363	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet outlet and overflow pipes but without fitting and the base support for tank	per litre	5.25	
364	Providing and fixing CP brass bib cock of approved quality conforming to IS 8931			
364.1	15 mmmnominal bore	each	207.00	
365	Providing and fixing CP brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810grms			
365.1	15 mmmnominal bore	each	262.05	
366	Providing and fixing CP brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms			
366.1	15 mmmnominal bore	each	253.95	
367	Providing and fixing CP brass stop cock (concealed) of standard design and of approved make conforming to IS 8931			
367.1	15 mmmnominal bore	each	262.55	
368	Providing and fixing CP brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931a) 15mm nominal bore			
368.1	15mm nominal bore	each	347.65	
369	Providing and fixing PTMT bib cock of approved quality and colour			
369.1	15mm nominal bore, 86mm long weighing not less than 88gms	each	120.85	
369.2	15mm nominal bore, 122mm long weighing not less than 99gms	each	264.90	
369.3	15mm nominal bore, 165mm long weighing not less than 110gms	each	189.40	
369.4	15mm nominal bore, 90mm long weighing not less than 93gms	each	137.15	
369.5	Providing and fixing PTMT stop cock of approved quality and colour			
369.5.1	15mm nominal bore, 86mm long weighing not less than 88gms	each	120.85	
369.5.2	20mm nominal bore, 89mm long weighing not less than 88gms	each	148.75	
369.6	concealed stop cock, 15mm nominal bore, 108mm long weighing not less than 108gms	each	195.20	
370	Providing and fixing PTMT pillar cock of approved quality and colour			
370.1	15mm nominal bore, 107mm long weighing not less than 110gms	each	185.25	
370.2	15mm nominal bore, 125mm long weighing not less than 120gms	each	266.55	
371	Providing and fixing PTMT push cock of approved quality and colour			
371.1	15mm nominal bore, 98mm long weighing not less than 75gms	each	113.90	
371.2	15mm nominal bore, 80mm long weighing not less than 46gms	each	96.45	
372	Providing and fixing PTMT grating of approved quality and colour .			
372.1	Circular type			
372.1.1	100 mm nominal dia .	each	39.70	
372.1.2	125 mmmnominal dia with 25mm waste hole	each	46.65	
372.2	Nil			
372.3	Nil			
372.4	Rectangular type with openable circular lid .			
372.4.1	150 mm nominal size square 100 mm diameter of the inner hinged round grating	each	109.35	
373	Providing and fixing CI double acting air valve of approved quality with bolts nuts rubber insertions ect complete (the tail pieces tapers etc, if required will be paid separately)			
373.1	50mm dia	each	3615.70	
373.2	80mm dia	each	5276.65	
373.3	100mm dia	each	6858.75	
374	Providing and fixing enclosed type water meter (bulk type) conforming to IS 2373 and tested by municipal board complete with bolts nuts rubber insertions etc. (the tail pieces if required will be paid separately)			

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
374.1	80 mm nominal bore	each	2448.40	
374.2	100 mm nominal bore	each	3719.80	
374.3	150 mm nominal bore	each	5261.80	
374.4	200 mm nominal bore	each	5914.55	
375	Providing and fixing CI dirt box stairner for bulk type water meter with nuts bolts rubber insertions ect complete conforming to IS 2373			
375.1	80mm dia	each	3110.45	
375.2	100mm dia	each	4672.20	
375.3	150mm dia	each	6067.85	
375.4	200mm dia	each	8404.80	
376	Providing and 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			
376.1	15mm nominal bore, 105mm long weighing not less than 138gms	each	165.60	
376.2	20mm nominal bore, 120mm long weighing not less than 198gms	each	234.50	
376.3	25mm nominal bore, 152mm long weighing not less than 440gms	each	497.40	
376.4	40mm nominal bore, 206mm long weighing not less than 690gms	each	902.75	
376.5	50mm nominal bore, 242mm long weighing not less than 1240gms	each	1338.30	
377	Providing and fixing PTMT angle stop cock 15mm nominal bore weighing not less than 85 gms	each	148.75	
378	Providing and fixing PTMT swivelling shower 15mm nominal bore weighing not less than 40 gms	each	101.95	
379	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	each	133.30	
380	Providing and laying S&S CI standard specials such as tees bends collars tapers and caps etc suitable for flanged jointing as per IS 1538			
380.1	Upto 300mm dia	quintal	4205.85	
380.2	Above 300mm dia	quintal	4737.80	
381	Providing and laying S&S CI standard specials suitable for mechanical jointing as per IS 13382			
381.1	Upto 300mm dia	quintal	6305.85	
381.2	Above 300mm dia	quintal	6586.90	
382	Providing and laying DI special of class K- 12 suitable for mechanical joints as per IS 9523			
382.1	Upto 600mm dia	quintal	10487.25	
382.2	Above 600mm dia	quintal	15685.00	
383	Providing and laying DI special of class K- 12 suitable for mechanical joints as per IS 9523			
383.1	Upto 600mm dia	quintal	11023.85	
383.2	Above 600mm dia	quintal	16644.40	
384	Providingf push on joints to centrifugally (spun) cast iro pipes or ductile iron pipes including testing of joints and including the cost of rubber gasket			
384.1	100mm dia pips	joint	39.00	
384.2	150mm dia pips	joint	60.30	
384.3	200mm dia pips	joint	98.20	
384.4	250mm dia pips	joint	111.70	
384.5	300mm dia pips	joint	153.10	
384.6	350mm dia pips	joint	182.15	
384.7	400mm dia pips	joint	340.40	
384.8	450mm dia pips	joint	378.35	
384.9	500mm dia pips	joint	393.20	
384.1	600mm dia pips	joint	489.30	
384.11	650mm dia pips	joint	739.65	
384.12	700mm dia pips	joint	853.45	
384.13	800mm dia pips	joint	953.35	
384.14	900mm dia pips	joint	1255.25	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
384.15	1000mm dia pips	joint	1523.90	
385	Providing and laying double flanged (screws / welded) centrifugally (spun) cast iron, class B(IS: 1536)			
385.1	100mm dia CI Double Flanged Pipe	mtr	1151.15	
385.2	150mm dia pips CI Double Flanged Pipe	mtr	1781.85	
385.3	200mm dia pips CI Double Flanged Pipe	mtr	2468.85	
385.4	250mm dia pips CI Double Flanged Pipe	mtr	3304.85	
385.5	300mm dia pips CI Double Flanged Pipe	mtr	4201.30	
385.6	350mm dia pips CI Double Flanged Pipe	mtr	5372.75	
385.7	400mm dia pips CI Double Flanged Pipe	mtr	6940.35	
385.8	450mm dia pips CI Double Flanged Pipe	mtr	8985.75	
385.9	500mm dia pips CI Double Flanged Pipe	mtr	11716.30	
386.1	600mm dia pips CI Double Flanged Pipe	mtr	15287.90	
387	Providing and laying S&S centrifugally cast (spun) / Ductile iron pipes conforming to IS 8329			
387.1	100mm dia pips Ductile iron class K-7 pipes	mtr	703.30	
387.2	150mm dia pips Ductile iron class K-7 pipes	mtr	1025.40	
387.3	200mm dia pips Ductile iron class K-7 pipes	mtr	1457.15	
387.4	250mm dia pips Ductile iron class K-7 pipes	mtr	1972.55	
387.5	300mm dia pips Ductile iron class K-7 pipes	mtr	2784.90	
387.6	350mm dia pips Ductile iron class K-7 pipes	mtr	3214.25	
387.7	400mm dia pips Ductile iron class K-7 pipes	mtr	3837.60	
387.8	450mm dia pips Ductile iron class K-7 pipes	mtr	4550.35	
387.9	500mm dia pips Ductile iron class K-7 pipes	mtr	5367.20	
387.1	600mm dia pips Ductile iron class K-7 pipes	mtr	7081.30	
387.11	700mm dia pips Ductile iron class K-7 pipes	mtr	8795.70	
387.12	800mm dia pips Ductile iron class K-7 pipes	mtr	12243.20	
387.13	900mm dia pips Ductile iron class K-7 pipes	mtr	15055.70	
387.14	1000mm dia pips Ductile iron class K-7 pipes	mtr	18247.50	
387.15	100mm dia pips Ductile iron class K-9 pipes	mtr	775.50	
387.16	150mm dia pips Ductile iron class K-9 pipes	mtr	1152.80	
387.17	200mm dia pips Ductile iron class K-9 pipes	mtr	1589.45	
387.18	250mm dia pips Ductile iron class K-9 pipes	mtr	2056.35	
387.19	300mm dia pips Ductile iron class K-9 pipes	mtr	2639.45	
387.2	350mm dia pips Ductile iron class K-9 pipes	mtr	3102.25	
387.21	400mm dia pips Ductile iron class K-9 pipes	mtr	4435.65	
387.22	450mm dia pips Ductile iron class K-9 pipes	mtr	4925.90	
387.23	500mm dia pips Ductile iron class K-9 pipes	mtr	6591.35	
387.24	600mm dia pips Ductile iron class K-9 pipes	mtr	7404.65	
387.25	700mm dia pips Ductile iron class K-9 pipes	mtr	10052.75	
387.26	750mm dia pips Ductile iron class K-9 pipes	mtr	11464.10	
387.27	800mm dia pips Ductile iron class K-9 pipes	mtr	11808.40	
387.28	900mm dia pips Ductile iron class K-9 pipes	mtr	13770.10	
387.29	1000mm dia pips Ductile iron class K-9 pipes	mtr	15500.90	
388	Providing and laying double flanged (screws / welded) centrifugally (spun) ductile pipes of class K-9 conforming to IS 8329			
388.1	100mm dia pips Ductile iron Double Flanged	mtr	2206.35	
388.2	150mm dia pips Ductile iron Double Flanged		3055.35	
388.3	200mm dia pips Ductile iron Double Flanged		3963.40	
388.4	250mm dia pips Ductile iron Double Flanged		5262.65	
388.5	300mm dia pips Ductile iron Double Flanged		6771.65	
388.6	350mm dia pips Ductile iron Double Flanged		8434.20	
388.7	400mm dia pips Ductile iron Double Flanged		10076.25	
388.8	450mm dia pips Ductile iron Double Flanged		12180.70	
388.9	500mm dia pips Ductile iron Double Flanged		14761.20	
388.1	600mm dia pips Ductile iron Double Flanged		20023.70	
388.11	700mm dia pips Ductile iron Double Flanged		24693.40	
389	Providing and fixing unplasticised PVC connection pipe with PTMT nuts collar and bush of approved quality and colour			
389.1	15mm nominal bore with 30cm length	each	45.55	
389.2	15mm nominal bore with 45 cm length	each	52.90	
390	Providing and fixing PTMT extension nipple for water tank pipe fitting of approved quality and colour			
390.1	15mm nominal bore. weighing not less than 32gms	each	38.75	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
390.2	20mm nominal bore. weighing not less than 40gms	each	45.75	
390.3	25mm nominal bore. weighing not less than 62gms	each	66.65	
391	Cutting holes up to 30x 30 cm in walls including making good the same			
391.1	with FPS bricks	each	75.66	Cement / Steel will be issued free of cost from BHEL Stores
392	Cutting holes up to 15 x 15 cm in RCC floors and roofs for passing drain pipe etc, and repairing the holes after insertion of drain pipe etc. with cement concrete 1:2:4(1cement 2 coarse sand 4 grade stone aggregate 20mm nominal size) including finishing complete so as to make it leak proof	each	78.60	Cement / Steel will be issued free of cost from BHEL Stores
393	Making chases up to 7.5 x 7.5 cm in walls including making good and finishing with matching surface after housing GI pipe etc.	mtr	32.06	Cement / Steel will be issued free of cost from BHEL Stores
394	Making hole up to 20x20cm and embedding pipes up to 150mm diameter in masonry and filling with cement concrete 1:3:6(1 cement 3 coarse sand 6 graded stone aggregate 20mm nominal size) including disposal of malba	mtr	44.47	Cement / Steel will be issued free of cost from BHEL Stores
395	Disinfecting CI water mains by flushing with water containing bleaching power at 0.5 gms per litre of water and cleaning the same with fresh water operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory			
395.1	80 mm dia meter C.I pipe	100 mtr	289.75	
395.2	100 mm dia meter C.I pipe	100 mtr	381.15	
395.3	125 mm dia meter C.I pipe	100 mtr	478.85	
395.4	150 mm dia meter C.I pipe	100 mtr	580.80	
395.5	200 mm dia meter C.I pipe	100 mtr	786.95	
395.6	250 mm dia meter C.I pipe	100 mtr	1007.55	
395.7	300 mm dia meter C.I pipe	100 mtr	1150.00	
395.8	350 mm dia meter C.I pipe	100 mtr	1302.95	
395.9	400 mm dia meter C.I pipe	100 mtr	1470.50	
395.1	450 mm dia meter C.I pipe	100 mtr	1645.65	
395.11	500 mm dia meter C.I pipe	100 mtr	1834.65	
395.12	600 mm dia meter C.I pipe	100 mtr	2235.70	
396	Extra for every operation disinfecting the CI main by flusing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water including getting the samples of water tested in the municipal laboratory			
396.1	80 mm dia meter C.I pipe	100 mtr	106.85	
396.2	100 mm dia meter C.I pipe	100 mtr	130.05	
396.3	125 mm dia meter C.I pipe	100 mtr	159.55	
396.4	150 mm dia meter C.I pipe	100 mtr	188.25	
396.5	200 mm dia meter C.I pipe	100 mtr	283.70	
396.6	250 mm dia meter C.I pipe	100 mtr	335.95	
396.7	300 mm dia meter C.I pipe	100 mtr	388.50	
396.8	350 mm dia meter C.I pipe	100 mtr	463.95	
396.9	400 mm dia meter C.I pipe	100 mtr	542.10	
396.1	450 mm dia meter C.I pipe	100 mtr	624.90	
396.11	500 mm dia meter C.I pipe	100 mtr	709.35	
396.12	600 mm dia meter C.I pipe	100 mtr	887.95	
397	Dismantling old CI pipes incliding excavation and refilling trenches after taking out the pipes breaking lead caulked joints melting of lead and making into blockes including stacking of pipes at site lead up to 50 mtr			
397.1	80 mm dia meter C.I pipe	100 mtr	82.65	
397.2	100 mm dia meter C.I pipe	100 mtr	85.35	
397.3	125 mm dia meter C.I pipe	100 mtr	87.80	
397.4	150 mm dia meter C.I pipe	100 mtr	90.45	
397.5	200 mm dia meter C.I pipe	100 mtr	99.95	
397.6	250 mm dia meter C.I pipe	100 mtr	109.30	
397.7	300 mm dia meter C.I pipe	100 mtr	117.30	
397.8	350 mm dia meter C.I pipe	100 mtr	124.60	
397.9	400 mm dia meter C.I pipe	100 mtr	131.15	
379.1	450 mm dia meter C.I pipe	100 mtr	137.95	
379.11	500 mm dia meter C.I pipe	100 mtr	145.65	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
379.12	600 mm dia meter C.I pipe	100 mtr	153.20	
380	Labour for cutting CI pipe with steel saw			
380.1	80 mm dia meter C.I pipe	each cut	22.10	
380.2	100 mm dia meter C.I pipe	each cut	29.80	
380.3	125 mm dia meter C.I pipe	each cut	41.75	
380.4	150 mm dia meter C.I pipe	each cut	56.15	
380.5	200 mm dia meter C.I pipe	each cut	74.90	
380.6	250 mm dia meter C.I pipe	each cut	92.65	
380.7	300 mm dia meter C.I pipe	each cut	111.40	
380.8	350 mm dia meter C.I pipe	each cut	129.10	
380.9	400 mm dia meter C.I pipe	each cut	147.70	
380.1	450 mm dia meter C.I pipe	each cut	165.60	
380.11	500 mm dia meter C.I pipe	each cut	184.20	
380.12	600 mm dia meter C.I pipe	each cut	218.55	
381	Maintenance by sweeping, cleaning the floor and side walls with coir brushes, removing the clay silt, scum etc, including cleaning the surfaces with bleaching powder and finally with fresh water till the full area is cleaned properly and writing the date of cleaning on the wall with paint neatly etc complete all as directed by Engineer - in - charge.			
382	underground reservoir of 5.00 lakhs gallons capacity.	One operation	8950.00	
383	underground reservoir of 1.35 lakhs / 2.50 lakhs / 3.30 lakhs gallons capacity.	One operation	5875.00	
384	Overhead tank of 0.50 lakh / 1.1 lakh gallons capacity (18 mtrs staging).	One operation	4294.00	
385	Conveying, lowering and fixing of CI/ sluice valves in the existing CI/RCC water main including earth work excavation, cutting the CI line and jointing, caulking and fixing the valve along with CI fittings including cost of all jointing materials etc complete.			
386	300 mm dia	Each	2000.00	
387	250 mm / 225 mm dia	Each	1800.00	
388	150 mm dia	Each	1400.00	
389	Earth work excavation in all soils, cutting and removing the existing pipe line of cast iron, RCC line, GI line and taking necessary connections including jointing and lead caulking cement joint, refilling the line wherever necessary road cutting and refilling etc complete. (All necessary materials will be supplied departmentally free of cost, only labour charges) for(while excavating care should be taken wherever cables etc. are met with and inform the concerned in-charge and intimate to Electrical Department/Telephones Department to take care of the cables).			
390	200mm to 350mm dia pipe line	Each	900.00	
391	100mm to 150mm dia pipe line	Each	800.00	
392	Attending pipe line burst on CI water line including earth work excavation, wherever necessary road cutting, removing the water, transportation of pipe and other materials from stores to site, cutting to required length placing, aligning, jointing, caulking and refilling back the trench etc complete.			
393	225mm to 350mm dia pipe line	Each	6700.00	
394	Excavation in all soils at leaking joints of CI water lines, removing the water, caulking the lead joints and refilling back the excavated soil at the repaired joints, wherever necessary and cutting and refilling.			
395	250mm to 500mm dia	Joint	840.00	
396	100mm to 225mm dia	Joint	640.00	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
397	Changing and tying of indicator wire for overhead tanks of 18 meter, staging with Nylon wire to the float ball on one side and to the indicator on the other side (Rate includes the cost of Nylon wire and labour). Etc. complete all as directed by Engineer - in - charge.	One operation	1210.50	
398	Supplying, lowering, aligning and fixing of (Non-return) reflex valve (heavy type) including a pair of steel flanges, cost of all jointing materials such as rubber packing, bolts and nuts etc, complete all as directed for (Sample must be approved by Engineer - in- charge)			
399	CI reflex valve 100 mm dia	Each	3492.00	
400	CI reflex valve 80mm dia	Each	3000.00	
401	Supply and fixing of steel flanges suitable to GI line or valves including necessary threading of GI pipe etc complete.			
401.1	100mm dia	Pair	329.00	
401.2	80mm dia	Pair	300.00	
401.3	50mm dia	Pair	200.00	
402	Changing and tying of indicator wire for U.G.R tanks of 1.00 to 2.50 lakhs with Nylon wire to the float ball on one side and to the indicator on the other side (only labour charges).	One operation	567.50	
403	Removal / lowering of submersible pumpsets of 4.5 to 15 HP from the borewells carefully by holding with chain pully block removing the GI pipes attached to the pump without damaging the cable connection to motor placing the pumpset and pipe on ground and again lowering the sub-mersible pump set with same operation all as directed by the Engineer-in-charge and required tools to be arranged by the agency i.e., chain pully, pipe wrench etc., payment will be made seperately for lower one operation, removal one operation	One operation	2266.50	
404	Supplying and fixing of brass spindle rod with brass nut suitable to the sluice valve of 80mm to 300 mm dia valves. (The payment will be made as per weight of raw material of required length before threading to spindle rod).	One Kg	366.00	
405	Cleaning of fountain pools and water jets by removing water manually and applying bleaching powder minimum 5 kgs to the pool and cleaning with coir brushes etc., complete for fountains at Check post, Rock garden & Community centre.	Each	1911.00	
406	Providing and fixing G.I. Union in existing G.I.Pipe Line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required.			
407	Supply and fixing of 10 mm square gland packing rope of champion brand.	Kgs	92.00	
408	Supply & fixing of 3 mm thick rubber packing for use on C.I/G.I lines.	Kgs	33.75	
409	Supply and fixing of 300 x 300 x 10 mm thick leather packing including labour charges cost of all materials etc complete.	Each	500.00	
410	Supply and delivery of bolts and nuts with double washers including taxes and conveyance etc., complete (1/2" to 1").	One Kg	46.80	
411	Cleaning of underground cylindrical raw sewage sump of 10 meters dia at STDP / 5 meters dia at NRSP by stopping the incoming flow removing the sand and other grit materials and dumping them within 100 M, cleaning the inside faces as directed to remove the scum and other foreign materials etc., complete. (Payment will be made for STDP Sump independently and NRSP Sump independently).	One operation	31685.00	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
DRAINAGE WORKS				
412	Providing and laying and jointing glazed stoneware pipes grade "A" with stiff mixture of cement mortar in the proportion of 1:1 (1 cement 1 fine sand) including testing of joints etc. complete			
412.1	100 mm diameter	mtr	94.57	Cement / Steel will be issued free of cost from BHEL Stores
412.2	150 mm diameter	mtr	134.79	Cement / Steel will be issued free of cost from BHEL Stores
412.3	200 mm diameter	mtr	224.55	Cement / Steel will be issued free of cost from BHEL Stores
412.4	230 mm diameter	mtr	244.48	Cement / Steel will be issued free of cost from BHEL Stores
412.5	250 mm diameter	mtr	314.66	Cement / Steel will be issued free of cost from BHEL Stores
412.6	300 mm diameter	mtr	435.88	Cement / Steel will be issued free of cost from BHEL Stores
413	Providing and fixing square mouth SW gully trap grade :A: complete with CI grating brick masonry chamber with water tight CI cover with frame of 300x300mm size(inside) the weighing of cover to be not less than 4.50kg and frame to be not less than 2.70kg as per standard design			
413.1	100x100mm size P type			
414.1.1	With FPS bricks class designation 75	each	935.15	
415.1.2	with sewer bricks conforming to IS 4885	each	1033.35	
415.2	Nil			
415.3	Nil			
415.4	150x100mm size P type			
415.4.1	With FPS bricks class designation 75	each	961.95	
415.4.2	with sewer bricks conforming to IS 4885	each	1060.15	
415.5	Nil			
415.6	Nil			
415.7	180x150mm size P type			
415.7.1	With FPS bricks class designation 75	each	1036.75	
415.7.2	with sewer bricks conforming to IS 4885	each	1134.95	
416	Dismantling of old SW pipe including breaking of joints and bed concrete stacking of useful materials near the site within 50m lead and disposal of unservicable materials into municipal dumps			
416.1	100 mm diameter	mtr	13.35	
416.2	150 mm diameter	mtr	14.75	
416.3	200 mm diameter	mtr	15.70	
416.4	230 mm diameter	mtr	16.20	
416.5	250 mm diameter	mtr	16.65	
416.6	300 mm diameter	mtr	17.60	
416.7	350 mm diameter	mtr	20.25	
416.8	400 mm diameter	mtr	22.15	
416.9	450 mm diameter	mtr	23.10	
417	Providing and laying non- pressure NP2 class (light duty) RCC pipes with collars joints with stiff mixture of cement mortar in the proportion of 1:2 (1 cement 2 fine sand) including testing of joints etc, complete			
417.1	100 mm dia RCC pipe	mtr	171.34	Cement / Steel will be issued free of cost from BHEL Stores
417.2	150 mm dia RCC pipe	mtr	199.72	Cement / Steel will be issued free of cost from BHEL Stores
417.3	250 mm dia RCC pipe	mtr	253.50	Cement / Steel will be issued free of cost from BHEL Stores
417.4	300 mm dia RCC pipe	mtr	333.01	Cement / Steel will be issued free of cost from BHEL Stores
417.5	450 mm dia RCC pipe	mtr	487.02	Cement / Steel will be issued free of cost from BHEL Stores
417.6	500 mm dia RCC pipe	mtr	571.28	Cement / Steel will be issued free of cost from BHEL Stores
417.7	600 mm dia RCC pipe	mtr	878.40	Cement / Steel will be issued free of cost from BHEL Stores

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
417.8	700 mm dia RCC pipe	mtr	981.59	Cement / Steel will be issued free of cost from BHEL Stores
417.9	800 mm dia RCC pipe	mtr	1145.48	Cement / Steel will be issued free of cost from BHEL Stores
417.1	900 mm dia RCC pipe	mtr	1388.32	Cement / Steel will be issued free of cost from BHEL Stores
417.11	1000 mm dia RCC pipe	mtr	1712.24	Cement / Steel will be issued free of cost from BHEL Stores
417.12	1100 mm dia RCC pipe	mtr	2061.86	Cement / Steel will be issued free of cost from BHEL Stores
417.13	1200 mm dia RCC pipe	mtr	2172.80	Cement / Steel will be issued free of cost from BHEL Stores
418	Constructing brick masonry manhole in cement mortar 1:4(1 cement 4 coarse sand) RCC top slab with 1:2:4 mix (1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) foundation concrete 1:4:8 mix (1 cement 4 coarse sand 8 graded stone aggregate 40mm 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 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design			
418.1	Inside size 90x80 cm and 45cm deep including CI cover with frame (light duty) 455x610mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight to cover 23 kg and weight of frame 15 kg			
418.1.1	With FPS bricks with class designation 75	each	3859.46	Cement / Steel will be issued free of cost from BHEL Stores
418.1.2	with sewer bricks conforming to IS 4885	each	3171.44	
418.2	Nil			
418.3	Nil			
418.4	Inside size 102x90 cm and 90cm deep including CI cover with frame (medium duty) 500mm internal dimensions total weight of cover and frame to be not less than 116 kg (weight to cover 58 kg and weight of frame 58 kg			
418.4.1	With FPS bricks with class designation 75	each	11882.20	
418.4.2	with sewer bricks conforming to IS 4885	each	12584.65	
418.5	Nil			
418.6	Nil			
418.7	Inside size 102x90 cm and 90cm deep including CI cover with frame (heavy duty) 560mm internal dimensions total weight of cover and frame to be not less than 208 kg (weight to cover 108 kg and weight of frame 100 kg			
418.7.1	With FPS bricks with class designation 75	each	15673.85	
418.7.2	with sewer bricks conforming to IS 4885	each	16278.10	
419	Extra for depth for manholes			
419.1	Size 90x80cm			
419.1.1	With FPS bricks with class designation 75	each	2654.00	
419.1.2	with sewer bricks conforming to IS 4885	each	3401.80	
419.2	Nil			
419.3	Nil			
419.4	size 120x90cm			
419.4.1	With FPS bricks with class designation 75	each	3179.95	
419.4.2	with sewer bricks conforming to IS 4885	each	4071.30	
420	Constructing brick masonry circular type manhole 0.91mm internal dia at bottom and 0.56m dia at top in cement mortar 1:4(1 cement 4 coarse sand) in side cement plaster 12mm thick with cement mortar 1:3(1 cement 3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6(1 cement 3 coarse sand 6 graded stone aggregate 40mm nominal size) and making necessary channel in cement concrete 1:2:4(1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design			

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
420.1	0.91m deep with SFRC cover and frame (heavy duty HD-20 grade designation) 560mm internal diameter conforming to IS 12592 total weight of cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4(1 cement 2 coarse sand 4 graded stones aggregate 20mm nominal size) including centering shuttering all complete at the external surface shall be paid for separately)			
420.1.1	With FPS bricks with class designation 75	each	4933.50	
420.1.2	with sewer bricks conforming to IS 4885	each	5347.90	
421	Extra depth for circular type manhole 0.91m internal dia(at bottom) with beyond 0.91m to 1.67m			
421.1	with F.P.S bricks class designation 75	mtr	2289.75	
421.2	with sewer bricks conforming to IS 4885	mtr	2915.90	
422	Providing NS foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6(1cement 3 coarse sand 6 graded stone aggregate 20mm nominal size) as per standards design			
422.2	with 20x20mm square bar	each	149.85	
422.3	with 20mm dia meter round bar	each	125.15	
423	Providing and fixing in position pre cast RCC manholescover and frame of required shape and approved quality			
423.1	LD-2.5			
423.1.1	Rectangular shape 600x450mm internal dimensions	each	816.43	Cement / Steel will be issued free of cost from BHEL Stores
423.1.2	square shape 450mm internal dimensions	each	698.39	Cement / Steel will be issued free of cost from BHEL Stores
423.1.3	Circular shape 450mm internal diameter	each	621.69	Cement / Steel will be issued free of cost from BHEL Stores
423.2	Nil			
423.4	Nil			
423.5	MD-10			
423.5.1	square shape 450mm internal dimensions	each	758.53	Cement / Steel will be issued free of cost from BHEL Stores
423.5.2	Circular shape500mm internal diameter	each	742.64	Cement / Steel will be issued free of cost from BHEL Stores
423.6	Nil			
423.7	Nil			
423.8	HD-20			
423.8.1	Circular shape560mm internal diameter	each	1060.19	Cement / Steel will be issued free of cost from BHEL Stores
423.9	EHD-35			
423.9.1	Circular shape560mm internal diameter	each	1172.89	Cement / Steel will be issued free of cost from BHEL Stores
424	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls floors with cement concrete 1:2:4 mix(1 cement 2 coarse sand 4 grades stone aggregate 20mm nominal size) cement plastered on both sides with cement mortar 1:3(1 cement 3 coarse sand) finished with a floating coat of neat cement and making neccessary channels for the drain etc. complete			
424.1	For pipes 100 to 230mm diameter	each	135.07	Cement / Steel will be issued free of cost from BHEL Stores
424.2	for pipes 250 to 300mm diameter	each	155.81	Cement / Steel will be issued free of cost from BHEL Stores
424.3	for pipes 350 to 450mm diameter	each	223.08	Cement / Steel will be issued free of cost from BHEL Stores
425	Dismantling of manhole including RCC top slab CI cover with frame including stacking of useful materials near the site and disposal of unserviceable materials into municipal dumps within 50m lead			
425.1	Rectangular manhole 90x80cm and 45cm deep	each	388.75	
425.2	Rectangular manhole 120x90cm and 90cm deep	each	680.85	
425.3	Rectangular arch type manhole 140x90cm and 2.45m deep	each	1277.35	
425.4	Circular manhole 122cm diameter and 1.68m deep	each	988.45	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
425	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately)			
425.1	Rectangular manhole 90x80cm with rectangular cover 600x450mm of grade LD-2.5	each	824.25	
425.2	Rectangular manhole 120x90cm with circular cover 500mm dia of grade MD-10	each	1287.45	
425.3	Rectangular manhole 120x90cm with circular cover 560mm dia of grade HD-20	each	1198.10	
425.4	Circular manhole 140cm dia with circular cover 600mm dia of grade EHD-35	each	115.25	
426	Constructing brick masonry chamber for underground CI inspection chamber and bends with 75 class designation bricks in cement mortar 1:4(1 cement 4 coarse sand) CI cover with frame (light duty) 455x610mm internal dimensions total weight of cover with frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) RCC top slab with 1:2:4 mix(1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) foundation concrete 1:5:10 (1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3(1cement 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc, complete as per standard design			
426.1	Inside dimensions 455x610mm and 45 cm deep for single pipe line			
426.1.1	with FPS bricks	each	2676.60	Cement / Steel will be issued free of cost from BHEL Stores
426.2	Nil			
426.3	inside dimensions 500x700mm and 45cm deep for pipe line with one or two inlets			
426.3.1	with FPS bricks	each	3058.51	Cement / Steel will be issued free of cost from BHEL Stores
426.4	Nil			
426.5	inside dimensions 600x850mm and 45cm deep for pipe line with three or more inlets			
426.5.1	with FPS bricks	each	3405.56	Cement / Steel will be issued free of cost from BHEL Stores
427	Extra for depth beyond 45 cm of brick masonry chamber			
427.1	For 455x610mm size			
427.1.1	with FPS bricks	mtr	1391.51	Cement / Steel will be issued free of cost from BHEL Stores
427.2	Nil			
427.3	For 500x700 mm size			
427.3.1	with FPS bricks	mtr	1517.80	Cement / Steel will be issued free of cost from BHEL Stores
427.4	Nil			
427.5	For 600x 850 mm size			
427.5.1	with FPS bricks	mtr	1760.66	Cement / Steel will be issued free of cost from BHEL Stores
428	Cleaning of Inspection Chamber / Manholes of different sizes, and diameters, silt, sand, root from Chambers and waste materials to be removed and disposal upto 10 Meters etc complete as directed by the Engineer-in-charge.			
428.1	For Inspection Chambers	Nos	241.00	
428.2	For main Man holes upto any depth existing in township.	Nos	527.00	
429	Cleaning of external Sewerlines SWG/RCC Line of different Diameters.With bamboos / roding by using rope with knots, the line should be clear with all organic materials etc including roots, removal of silt, obstructed sludge with required tools, removal of silt sand, material came from the manholes, disposal upto lift upon a distance of 2 KM or suitable place as directed by the Engineer-in-charge.			
429.1	4" Dia SWG Line Cleaning	One Rmt	9.80	
429.2	6" Dia SWG Line Cleaning	One Rmt	18.20	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
429.3	9" Dia SWG Line Cleaning	One Rmt	24.80	
429.4	12" Dia SWG Line Cleaning	One Rmt	40.00	
430	Providing and fixing in position pre-cast R.C.C. SFRC or other approved brand light duty rectangular shape man hole covers of 900 x 450 mm internal dimensions or suitable to present inspection chamber covers, of approved quality including transporting to each quarter and placing in position etc complete all as directed by Engineer-in-charge.	Each	584.00	
ROAD WORKS				
431	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonnes capacity after excavating earth to an average of 22.5cm depth dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surface earth lead upto 50mtr	sqm	33.90	
432	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density)	cum	4.50	
433	Supplying and stacking at site			
433.1	90mm to 45mm size stone aggregate	cum	742.30	
433.2	63mm to 45mm size stone aggregate	cum	768.45	
433.3	53mm to 22.4mm size stone aggregate	cum	810.55	
433.4	over burnt (Jhama) brick aggregate 120mm to 40mm	cum	398.20	
433.5	over burnt (Jhama) brick aggregate 90mm to 45mm	cum	438.85	
433.6	stone screening 13.2mm nominal size (Type A)	cum	892.25	
433.7	stone screening 11.2mm nominal size (Type B)	cum	979.40	
433.8	Red bajri	cum	654.15	
433.9	Good earth	cum	144.05	
433.10	moorum	cum	421.85	
434	Laying spreading and compacting stone aggregate of specified sizes to WBM specifications including spreading in uniform thickness hand picking rolling with 3 wheeled road/ vibratory roller 8-10 tonnes in stages to proper grade and camber applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate watering and compacting to the required density.	cum	192.55	
435	Laying water bound macadam sub base with brick aggregate and blinding material earth etc. including screening sorting and spreading to template and consolidation with light power road roller etc.(payment for brick aggregate and moorum etc to be made separately)			
435.1	over burnt (Jhama) brick aggregate 120mm to 40mm	cum	136.20	
435.5	over burnt (Jhama) brick aggregate 90mm to 45mm	cum	136.20	
436	Supplying stacking and spreading 6mm thick red bajri watering and rolling complete including preparation of the surface and rolling			
436.1	With road roller / hand roller	sqm	6.70	
437	Brick edging in full brick width and half brick depth including excavation. Refilling and disposal of surplus earth lead upto 50mtr			
437.1	With FPS bricks of class designation 75	mtr	52.35	
438	Brick edging laid lengthwise with half brick depth including excavatio, refilling and disposal of surplus earth lead upto 50mtr			
438.1	With FPS bricks of class designation 75	mtr	14.90	
439	Scarifying metallad (water bound) road surface including disposal of rubbish lead upto 50m and consolidation of the aggregate received from scarifying with power road roller of 8 to 10 tonnes capacity	sqm	6.45	
440	Making bajri path including preparation of subgrade supplying and laying brick aggregate of 50mm nominal size 7.5cm deep with blinding material consisting of 12mm moorum and 12mm red bajri consolidated with road roller	sqm	69.95	
441	Dry stone pitching 22.5cm thick including supply of stones and preparing surface completes	sqm	211.10	
441	Dry brick pitching half brick thick in drains including supply of bricks and preparing the surface complete			

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
441.1	With FPS bricks of class designation 75	sqm	183.55	
441.2	Cutting road and making good the same including supply of extra quantities of material ie aggregate moorum screening red bajri and labour required			
441.2.1	water bound macadam	cum	572.45	
442	Cutting bajri paths and making good the same including supply of extra quantities of brick aggregate moorum and red bajri required	sqm	53.25	
443	Supplying at site			
443.1	RCC standard post/ struts/ rails/ pales of mix 1:1.5:3(1cement 1.5coarse sand 3 graded stone aggregate 12.5mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of engineer in charge including fixing (cost of earth works in excavation, concrete works in foundation to be paid separately)	cum	12473.10	
443.2	Welded steel wire fabric of required width rectangular mesh painted with two or more coats of enamel paint of approved shade over a coat of primer (painting to be paid for separately)	kg	46.50	
444	Supplying and fixing turn buckles and straining bolts for barbed wire fencing	each set	88.15	
445	Fencing with RCC 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 diagonal of barbed wire 9.38kg per 100mtr (min) between the two posts fitted and fixed with GI staples on wooden plugs or GI binding wire tied to 6mm bar nibs fixed while casting the post (cost of RCC 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			
445.1	With GI barbed wire	mtr	5.85	
446	Fencing with angle iron post placed at required distance embeded in cement concrete blocks every 15th post last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires of barbed wire 9.38kg per 100m (min) between the two posts fitted and fixed with GI staples turn buckles etc. complete (cost of posts struits earth work and concrete work to be paid for separately) payment to be made per metre cost of total length of barbed wire used			
446.1	With GI barbed wire	mtr	8.45	
447	Supplying at site angle iron post and strut of required size including bottom to be split and bent at right angle in opposite direction for 10cm length and drilling holes upto 10mm dia etc. complete	kg	43.35	
448	welded steel wire fabric fencing with posts of specified material and of standard design placed and embedded in cement concrete blocks 45x45x60cm of mix 1:5:10(1cement 5 fine sand 10 graded stone aggregate 40mm nominal size) every 15th post last but one end post and corner post shall be strutted on both sides and and end post on one side only and struts embedded in cement concrete blocks 70x45x50cm of the same mix provided with welded steel wire fabric fixed between the posts fitted and fixing with GI staples on wooden plugs or tied between the posts fitted and fixed with GI binding wire (cost of posts welded steel wire fabric painting earth work in excavation and concrete to be paid for separately)	sqm	11.50	
449	Engraving letters in hard stone	per letter per cm height	1.55	
450	Providing and fixing 15x15x90cm boundary stone of hard stone with top 30cm chisel dressed on all four sides and on top (cost of excavation refilling and concrete etc. to be paid for separately)	each	77.10	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
451	Providing and fixing 15cm dia at top 20cm at bottom and 90cm high precast reinforced cement concrete 1:1.5:3(1 cement 1.5 coarse sand 3 graded stone aggregate 20mm nominal size) boundary stone as per standard design including finishing smooth with cement mortar 1:3(1 cement 3 fine sand) (cost of excavation refilling and concreting to be paid for separately)	each	215.35	Cement / Steel will be issued free of cost from BHEL Stores
452	Providing and fixing precast reinforced cement concrete 1:1.5:3(1 cement 1.5 coarse sand 3 graded stone aggregate 20mm nominal size) kilometres stones as per standard design including finishing smooth in 1:3 cement mortar (1cement fine sand) but excluding the cost of earth work concrete in foundation painting and lettering etc. which shall be paid for separately			
452.1	35x111x25cm size	each	901.31	Cement / Steel will be issued free of cost from BHEL Stores
452.2	50x152.5x25cm size	each	1211.58	Cement / Steel will be issued free of cost from BHEL Stores
452.3	35x93.5x18cm size	each	620.14	Cement / Steel will be issued free of cost from BHEL Stores
453	Cement concrete 1:2:4(1cement 2 coarse sand 4 grade stone aggregate 40mm nominal size) in pavements laid to required slope and camber in panels as required including consolidation finishing and tamping complete	cum	1968.15	Cement / Steel will be issued free of cost from BHEL Stores
454	Providing and laying desing mix cement concrete in raods taxi tracks and runways having a minimum works test beam flexural strength of 30 kg per cm2 at 28days using not less than 430kg. Of cement per cum of finished concrete coarse sand and grade stone aggregate of 40mm nominal size in appropriate proportions as per specified design criteeria approved by engineer in charge mechanically vibrated using needle and surface vibrators including steel form work with sturdy MS channel sections including curing and approved joint filler and filling construction joints and dummy joints with approved joint filler and primer including rouding of the edges and filling the grooves10x25mm deep at top for construction joints and 10mmx50mm deep at top for dummy joints with joint sealing compound (conforming to grade B of IS 1834) including making necessary arrangements for expansion joints etc. all complete	cum	1917.60	Cement / Steel will be issued free of cost from BHEL Stores
455	Extra for providing and mixing hard crete of approved quality as per manufactures specification in cement concrete	ltr	33.70	
456	providing and fixing in position pre moulded joint filler in expansion joints	per cm depth cm width per in length	2.00	
457	Providing and laying in position bitumen hot sealing compoud for expansion joints etc			
457.1	Using grade A sealing compound	per cm depth cm width per in length	1.10	
458	Painting runway/ taxi track/ apron marking with adequate no of coats to give uniform finish with road marking paint of superior make as approved by the engineer in charge i/c cleaning the surface of all dirt scales oil grease and other foreign material etc., and lining out complete			
458.1	New work (two or more coats)	sqm	70.15	
458.2	Old work(one or more coats)	sqm	43.10	
459	Painting raod surface marking with adequate no of coats to give uniform finish with ready mixed road marking paint conforming to IS 164 on bitumious surface in white / yellow shade including cleaning the surface of all dirt scales oil grease and foreign material etc. complete			
459.1	New work (two or more coats)	sqm	58.10	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
459.2	Old work(one or more coats)	sqm	37.40	
460	making bell mouth opening/ entrance of size 100x50x50cm for drainage pipe under footpath including providing cement concrete 1:3:6(1cement 3 coarse sand 6 grade stone aggregate 20mm nominal size) for shape of bell mouth including plastering providing and fixing precast RCC/SFRC slab including plastering with cement mortar 1:3(1 cement 3 fine sand) of 6 mm thickness on exposed surface of the slab and bell mouth including centring shuttering and neat cement punnig inside the bell mouth etc. all completee	each	698.98	Cement / Steel will be issued free of cost from BHEL Stores
461	Providing and fixing glow studs of size 100x20mm made of heavy duty body shall be moulded ASA (acrylic styrene acryloretrite) or HIP (high impact polystyrene) or ABC having electronically welded micro prismatic lens with abrasion resistant coating as approved by engineer in charge. the cats eye shall support a load of 13635kg tested in accordance with ASTM D 4280. the slope of retro- reflective surface shall be 35 +/-5 degress to base. the reflective panels on both sides with at least 12cm of reflective area up each side. the luminance intensity should be as per the specification and shall be tested as described in ASTM I:809 as recommended in BS 873 part 4 :1973. the studs shall be fixed to the road surface using the adhesive conforming to IS as per procedure recommended by the manufacturer complete and as per direction of engineer in charge	each	536.60	
462	preparation of sub base road pavement with commerial dry lime (slaked) fly ash stabilised soil with a mix of 3% lime 12% fly ash and 85% local suitable soil by weight so as to achieve minimum field CBR of 20 including mixing rolling with road rolling with road roller curring etc. all complete			
462.1	minimum thickness 15cm	cum	323.20	
463	Providing and fixing precast lime fly ash concrete blocks 1:2:6(1 lime 2 fly ash 3 coarse sand 6 grade stone aggregate 20mm nominal size) including finishing with 10mm thick cement mortar 1:3(1cement 3 coarse sand) in foot paths including preparation of sub grade with a hand rammer laying 10mm thick leveling course of fine sand (jamuna sand) and filling the joints with fine sand	cum	3112.45	Cement / Steel will be issued free of cost from BHEL Stores
464	Providing and fixing concertina coil fencing with required dia 610mm(having 15nos round per 6metre length) up to 3m height of wall with existing angle iron Y shape placed 2.4m or 3.00m apart and with 9 horizontal RBT stud tied with GI staples and GI clips to retain horizontal including necessary bolts or GI barbed wire tied to angle iron all complete as per direction of engineer in charge with reinforced barbed tape(RBT) / spring core (2.5mm thick) wire of high tensile strength of 165kg/ sqmm with tape (0.52mm thick) and weight 43.478gm / metre (cost of MS angle CC blocks shall be paid separately)	mtr	180.25	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
465	Manufacturing supplying and fixing retro reflective sign boards made up of 2mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type - IV of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25x25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours). Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including all leads and lifts etc. complete as per drawing , specification and direction of Engineer-in-charge			
465.1	Mandatory / Regulatory sign boards of 900mm dia metre with part as length of 3750mm	sqm	3776.45	
465.2	cautionary / warning sign boards of equilateral triangular shape having each side of 900mm with support length of 3650mm	sqm	2616.55	
466	Manufacturing supplying and fixing retro reflective overhead signage boards made up of 2mm thick aluminium sheet face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective sheeting conforming to type - III of ASTM-D-4956-01 as approved by Engineer-in-charge letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D-4956-01 and fixing the same to the plate of structural frame work by means of suitable sized aluminium alloys, rivets or bolts & nuts @ 300mm centre to centre all along the periphery as well as in two vertical rows along with theft resistant measures including the cost of painting with two or more coats of epoxy paint in grey colour on the back side of aluminium sheet including appropriate priming coat. The rate includes the cost of rounding off the corners, lowering down the structural frame work from the gantry, fixing and erecting the same in position all complete as per drawings, specification and direction of the engineer-in-charge. (Structural frame work including M.S. plate to be provided separately. Rectangular area of the sheet only shall be measured for payment).	sqm	4017.75	
467	Providing Retro-reflective regulatory sign board of size 900mm dia meter made out of 2mm thick aluminium sheet, face to be fully covered with high intensity encapsulated lens type retro -reflective sheeting as approved by Engineer-in-charge . Letter, symbols, borders etc. will be as per IRC - 67 with required colour scheme on the boards and with the high intensity grade A. The aluminium sheet to be riveted to M.S. frame of angle iron of size 40x40x4mm The boards will be fixed to 1 No. 50x50mm square post made of M.S. angle 50x50x4mm, 4m long welded to the frame with adequate anti-theft arrangement . Sheet work to be painted with two or more coats of synthetic enamel paint over an under coat (primer) and back side of aluminium sheet to be painted with two or more coats of epoxy paint including appropriate priming coat complete in all respects as per direction of Engineer-in-charge.	sqm	4117.10	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
468	Providing and applying 2.5mm thick road marking strips (retro reflective) of specified shade / colour using hot thermoplastic material by fully / semi automatic thermoplastic paint applicator machine fitted with profile shoe glass beads dispenser propane tank heater and profile shoe heater driven by experienced operator on road surface including cost of material labour T & P cleaning the road surface of all dirt seals oil grease and foreign material etc. complete as per direction of engineer in charge and accordance with applicable specification	sqm	497.30	
469	Providing and laying and making kerb channel 30cm wide and 50mm thick of cement concrete 1:3:6(1 cement 3 coarse sand 6 grade stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth etc. complete as per direction of engineer in charge	mtr	128.18	Cement / Steel will be issued free of cost from BHEL Stores
470	providing and laying 75mm thick compacted bed of dry brick aggregate of 40mm thick nominal size including spreading well ramming consolidating and grouting with jamuna sand including finishing smooth etc. complete as per direction of engineer in charge	sqm	63.15	
471	providing and fixing post delineators (made of ABS body fitted with 2 nos 100mm dia) reflective and reflectors are mounted on MS pipe of 65mm dia dully power coated anti rust and theft steel not to be installed as per direction of engineer in charge	each	786.35	
472	Excavating holes upto 0.10 cum including getting out the excavated soil then returning the soil as deported in layers not exceeding 20cm in depth including consolidating and deposited layer by ramming watering etc. disposing of surplus excavated soil as directed with in a lead of 50mm and lift upto 1.5m			
472.1	all kinds of soil	each	10.85	
473	Providing and fixing at or near ground level factory made RCC pavement slab of M-30 grade of size 450x450x50mm (HPL or equivalent) including reinforcement with 6mm dia MS bars 4nos each side including setting in position in footpath to the required level and line over a bed of 20mm average thick cement mortar (1cement 3 coarse sand) having thickness not more than 5mm except on curve including filling of joints with same cement mortar and making grooves etc. complete as per direction of engineer in charge	sqm	304.90	Cement / Steel will be issued free of cost from BHEL Stores
474	providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and of approved size and design / shape laid in required colour and pattern over and including 50mm thick compacted as per the direction of engineer in charge	sqm	345.45	
475	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line level and curvature jointed with cement mortar 1:3(1 cement 3 coarse sand) including making joints with or without grooves (thickness of joints expect at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of engineer in charge (length of finished kerb edging shall be measured for payment) precast CC kerb stone shall be approved by engineer in charge	cum	4221.60	Cement / Steel will be issued free of cost from BHEL Stores
476	Providing and fixing GI chain link fabric fencing of required width in mesh size 50x50mm including strengthening with 2mm dia wire or nuts bolts and washers as required complete as per the direction of engineer in charge			
476.1	made of GI wire of dia 4mm	sqm	373.45	
476.2	made of GI wire of dia 4mm PVC coated to achieve outer dia not less than 5mm in required colour and shade	sqm	403.95	
477	Providing and fixing GI chain link fabric fencing of required width in mesh size 25x25mm including strengthening with 2mm dia wire or nuts bolts and washers as required complete as per the direction of engineer in charge	sqm	464.95	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
478	Supplying and stacking of hard stone (for stone pitching) 22.5cm thick at site	cum	458.35	
479	Dry stone pitching 22.5mm thick laid in courses and required profile with hammer dressed stones having no side less than 15cm with minimum depth of 20cm including preparing the beding surfaces ect, all complete(payment for stone to be made separately)	sqm	96.60	
480	75mm thick back filling for pitching including supplying of required materials and consolidation etc. complete with			
480.1	moorum	sqm	34.45	
480.2	stone aggregate 20mm nominal size	sqm	69.05	
480.3	Stone aggregate 40mm nominal size	sqm	65.05	
481	Providing and laying CC pavement of mix M25 with ready mixed concrete from batching plant . The ready mixed concrete shall be laid and finished with screed board vibrator vacuum dewatering process and finally finished by floating brooming with wire brush etc. complete as per specification and directions of engineer in charge (the panel shuttering work shall be paid for separately)	cum	2748.65	Cement / Steel will be issued free of cost from BHEL Stores
481.1	Deduct for using of M20 grade concrete instead of M25 grade concrete in CC pavement	cum	147.30	
482	Scarifying the existing bitumen road surface to a depth of 50mm and disposal of scarified material within all lifts and lead upto 1000mtr (by mechanical means)	sqm	2.60	
483.1	Providing and laying Bituminous Macadam on prepared surface with specified graded crushed stone aggregate for profile corrective base/ binder course including loading of aggregate with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material by tippers to paver and laying the mixed material with paver finisher fitted with electronic sensing device to the required level and grade and rolling with road rollers, as per MORTH specification to achieve the desired density and compaction (but excluding the cost of primer/ tack coat) for an average thickness of 50mm/ 75mm average compacted thickness with bitumen of 60/70 grade @ 3.5% (Percentage by weight of total mix) etc. complete all as directed by Engineer-in-charge.	cum	5779.81	
483.2	2.5cm premix carpet surfacing with 2.25 cu.m and 1.12cu.m of stone chippings of 13.2mm and 11.2mm size respectively per 100 sq.m and 52 kg and 56kg of hot bitumen per cu.m of stone chippings of 13.2mm and 11.2mm size respectively including a tack coat with hot straight run bitumen including consolidation with road roller of 6 to 9 tonne capacity etc complete (tack coat to be paid for separately) with paving Asphalt 80/100 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt.	sqm	135.80	
483.3	Providing and applying tack coat using bitumen emulsion (Rapid Setting) complying with IS 8887-1995, spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per specifications. On bituminous surface @ 0.25 kg/sqm.	sqm	13.22	
HORTICULTURE WORKS				
484	Trenching in ordinary soil up to a depth of 6cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly leveling with in a lead of 50m and making up the trenched area to proper levels by filling with earth mixed with sludge or / and manure before and after flooring trench with water (excluding cost of imported earth sludge or manure)	cum	16.95	
485	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment)	cum	144.05	
486	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 8% for payment)	cum	136.85	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
487	Supplying and stacking at site dump manure from approved source including carriage up to 1 km (earth measured in stacks will be reduced by 8% for payment)			
487.1	Screemed through sieves of IS designation 20mm	cum	82.90	
487.2	Screemed through sieves of IS designation 16mm	cum	90.75	
487.3	Screemed through sieves of IS designation 4.75mm	cum	97.05	
488	Rough dressing the trenched ground including breaking clods	100sqm	33.05	
489	Uprooting weeds from the trenched area after 10 to 15 days of its flooring with water including disposal of uprooted vegetation	100sqm	106.85	
490	Fine dressing the ground	100sqm	80.20	
491	Spreading of sludge, dump manure or / and good earth in required thickness (cost of sludge, dump manure or / and good earth to be paid separately)	cum	11.60	
492	Mixing earth and sludge or manure in proportion specified or directed.	cum	7.85	
493	Grassing with doob grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately)			
493.1	In rows 15cm apart in either direction	100sqm	121.00	
493.2	in rows 7.5cm apart in either direction	100sqm	251.25	
493.3	in rows 5cm apart in either direction	100sqm	384.85	
494	Renovating lawns including weeding cheeling the grass forking the ground top dressing with sludge or manure mixing the same with forked soil watering and maintaining the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing and disposal of rubbish as directed including supplying good earth if needed but excluding the cost of sludge or manure(the good earth shall be paid for separately)	100sqm	741.50	
495	Uprooting rank vegetation and weeds by digging the area to a depth of 60cm removing all weeds and other growth with roots by forking repeatedly breaking clods, rough dressing flooring with water uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass including disposal of all rubbish with all leads and lifts.	100sqm	1318.20	
496	Preparation of beds for hedging and shrubbery by excavating 60cm deep and trenching the excavated base to a further depth of 30cm refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1(8 parts of stacked volume of earth after reduction by 20% one part of stacked volume of sludge or manure after reduction by 8%), flooring with water filling with earth if necessary watering and finally fine dressing leveling ect. including stacking and disposal of material declared unserviceable and surplus earth by spreading and leveling as directed within a lead of 50m lift upto 1.5m complete (cost of sludge, manure or extra earth to be paid for separately)	cum	47.90	
497	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% :1 part of stacked volume of manure after reduction by 8%) flooring with water dressing including removal of rubbish and surplus earth., if any with all leads and lifts (cost of manure sludge or extra good earth if needed to be paid for separately)			
497.1	Holes 1.2 m dia and 1.2m deep	each	146.65	
497.2	Holes 60cm dia and 60cm deep	each	19.25	
498	Half brick circular tree guard in 50 class designation bricks internal diameter 1.25meter and height 1.2 meter above ground and 0.20m below ground bottom two course laid dry and top three courses in cement mortar 1:6(1 cement 6 fine sand) and the intermediate courses being in dry honey comb masonry as per design complete			
498.1	with FPS bricks	each	595.70	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
499	Providing and fixing MS flat iron tree guard 60cm dia. And 2 m height above ground level formed of 4 nos. 25x6mm and 8 nos. 25x3mm vertical MS flats rivetted to 3 nos. 25x6mm MS flat iron rings in two halves bolted together with 8mm dia. And 30mm long bolts including painting two coats with paint of approved brand and manufacture over a coat of priming complete in all respects	each	1592.10	
500	Making tree guard 53cm dia and 1.3m high as per design from empty coal tar drums supplied free by the department including providing and fixing 2nos MS sheet rings 50x0.5mm with rivets complete in all respects including painting insides and outside of tree guard with			
500.1	A coat of coal tar	each	104.00	
500.2	Two or more coats of synthetic enamel paint of approved quality shade over a priming coat	each	187.15	
501	Making tree guard 53cm dia and 2 m high as per design from empty coal tar drums supplied free by the department including providing and fixing four legs 40cm long of 30x3mm MS flat riveted to tree guard and providing and fixing 2 nos MS sheet rings 50x0.5mm with rivets complete in all respects including painting inside and outside of tree guard with			
501.1	A coat of coal tar	each	220.15	
501.2	Two or more coats of synthetic enamel paint of approved quality shade over a priming coat	each	348.85	
502	Edging with bricks laid dry length wise including excavation refilling consolidating with hand packing and spreading neatly surplus earth within a lead of 50 m			
502.1	75 class designation			
502.2	FPS bricks	mtr	15.05	
502.3	50 class designation			
502.4	FPS bricks	mtr	13.85	
503	Filling mixture of earth and sludge or manure in the desired proportion in trenches, flooring with water and leveling (cost of supplying earth and sludge or manure and mixing excluded)	cum	3.95	
504	Excavation in dumped stones or malba including stacking of serviceable and material separately and disposal of unserviceable material lead up to 50m and lift up to 1.5m disposed material to be neatly dressed.	cum	109.95	
505	Excavation in bajri path including stacking of serviceable and unserviceable material lead up to 50m and lift up to 1.5 m disposed material to be neatly dressed	cum	122.55	
506	Excavation in water bound macadam road including stacking the serviceable material lead up to 50m and lift up to 1.5m disposed material to be neatly dressed	cum	150.80	
507	Flooding the ground with water including making kiaries and dismantling the same	100sqm	68.40	
508	Grass cutting including light jungle, collection of stones, disposing, the cut grass and light jungle to places as directed by the Engineer-in-charge. The rate quoted shall include the cost of cutting, cleaning, loading, conveyance within a lead of 2 KM to places as directed and spreading etc complete.	SQM	0.75	
509	Cutting the hedges around the quarters and public buildings with big scissors, knives etc including clearing and disposing the cut waste within a lead of 2 km all as directed by the Engineer-in-charge. The waste materials shall be cleared on the same day and the rate shall include all tools, transport etc.	One Cum	3.00	
510	Uprooting and clearing parthinium and other weeds with big scissors, knives etc including clearing and disposing the cut waste within a lead of 2 km all as directed by the Engineer-in-charge. The waste materials shall be cleared on the same day and the rate shall include all tools, transport etc.	One Sqm	1.16	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
511	Cleaning jungle including uprooting of rank vegetation, grass brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 5 Km outside the periphery of the area cleared etc complete all as directed by Engineer-in-charge.	one cum	2.64	
512	Arresting the growth of trees along the walls of the buildings in Township by applying gylcil with ammonia od required quantity till tree is dried and removing the dried tree along with roots and dispoting off, upto 2 KM lead etc complete as directed by Engineering - in - charge.	each	200.00	
513	Cutting of tree branches over buildings at more than 6 meters height and removing other kind of branches from the cut branch and stocking as directed by the Engineer-in-charge within a lead of 3 kms (separate payment will be made for transporting the tree branches from site to BHEL Nursery stockyard).			
513.1	100 to 200 mm girth with its braches.	Each	34.20	
513.2	above 200 mm girth with its braches.	Each	56.60	
PROVIDING MACHINARY				
514	Supply of JCB	Per Hour	750.00	
515	Supply of Tractor with ripper / Trolley	Per Day	1000.00	
516	Supply of Tractor with hydraulic Lift with 4 USW	Per Day	2672.00	
517	Supply of water Tanker	Per Day	800.00	
518	Supply of Kambi Series/ Machine for de-silting or De-choking or Removal of silt	Per Day	15000.00	
MISCELANEOUS WORKS				
519	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.	One Sqm	1.15	
520	Cleaning of water tanks of various sizes using minimum 150 gms cleaching powder for each tank of any number of parts including cost of bleaching powder. (The agency shall make his own arrangements for tools required and shall repair and replace the ball cocks damaged while cleaning).	Each Tank	33.00	
521	Fixing barbed wire fencing to the RCC poles / MS angles horizontally and diagonally with GI binding wire including cost of fixing materials. The payment shall be mad for running length of each row of fencing and including tightening the loose barbed wire wherever necessary. The barbed wire shall be supplied free of cost at BHEL stores.	One Rmt	3.70	Barbed wire is issued free of cost from BHEL Stores
522	Erection RCC poles /M.S angles posts in position by coveying the same to the places as directed.	Each	32.98	
523	Upkeeping of play fields by sweeping the areas neatly, watering, spreading screened murrum, rolling with hand driven roller etc complete as instructed	One Sqm	0.35	
524	Carrying the earth / gravel from stacks to the areas of filling, spreading in layers of 150 mm thick watering, ramming and consolidation with power roller of required capacity so as to bring the surface to proper line, level camber and grade etc complete as directed by Engineer-in-charge	One Cum	18.00	
525	Labour charges for fixing of chain link mesh with a required tools etc complete all as directed by Engineer-in-charge. The required binding wire or any materials will be arranged by the BHEL.	Sqm	20.00	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
526	Larvacidal treatment at all the breeding places with required periodicity covering areas as per Annexure-I atleast once in a week, in and around the township and with in the period of mosquito life cycle to arrest the reoccurrence of breeding using specified chemicals such as Baytex 1000 / M.L. Oil / Pyrethurn emulsion in a proper effective dosage for knock down and preventive treatments all as directed.	one month	6600.00	
527	Fogging the entire township with diesel mixed pyrethurn 2% extract during the mosquito density season for the destruction of adult mosquitoes during the migration time at the open areas around the residential and non-residential buildings checking the entry into the houses and functional buildings all as directed (Van foggers / approved movable foggers, four numbers must be used during operation to cover the entire township in four days).	One operation	7700.00	
528	Fogging in General Hospital premises in township with diesel mixed pyrethurn 2% extract during the mosquito density season for the destruction of adult mosquitoes during the migration time at the open areas around the residential and non-residential buildings checking the entry into the houses and functional buildings all as directed (Van foggers / approved movable foggers, four numbers must be used during operation to cover the entire township in four days).	One operation	2000.00	
529	General anti-mosquito / insecticidal spray for destruction of all kinds of insects such as mosquitoes, cockroaches, bed bugs, caterpillars and lizards etc, with alternate usage of safe chemicals formulations of Baygon concentrate, Malathion, Nuvan, Cypermachine, Feneveirate, Deltamethrine and Pyrethrine basing on the immunity level of the pest all as directed for residential buildings.	nos	1.00	
530	General anti-mosquito / insecticidal spray for destruction of all kinds of insects such as mosquitoes, cockroaches, bed bugs, caterpillars and lizards etc, with alternate usage of safe chemicals formulations of Baygon concentrate, Malathion, Nuvan, Cypermachine, Feneveirate, Deltamethrine and Pyrethrine basing on the immunity level of the pest all as directed for non-residential buildings.	each	5.00	
531	General anti-mosquito / insecticidal spray for destruction of all kinds of insects such as mosquitoes, cockroaches, bed bugs, caterpillars and lizards etc, with alternate usage of safe chemicals formulations of Feneveirate, Deltamethrine and Pyrethrine basing on the immunity level of the pest covering General Hospital Male ward, Female ward, Surgical ward, Gynac ward, All special rooms 12 nos, New OPD 1st floor and ground floor, Old OPD, Isolation ward, Labs, Operation threator, children ward, Stores area, open pockets with in the premises and all office rooms etc complete, all as directed by Engineer-in-charge.	each	750.00	
531.1	Antitermite treatment to the infected wooden items such as doors, windows, ventilators, ward robes etc in residential buildings.	one sqm	1.50	
531.2	Antitermite treatment to infected walls and floor joints in residential and non-residential buildings.	one sqm	1.50	
531.3	Antitermite treatment to infected open areas around trees and plants.	one sqm	1.50	
352	Treatment and destruction of white ants , nest hills built in the open areas of the township including the disposal of excavated earth to the places and filling with the other pit to be made to the extent for removal of queen nest shown to the department for a check.	nos	2.00	
533	Treatment to the bandicoot holes and destruction of bandicoots by applying radent treatment and eradicating the bandicoot menance completely.	nos	2.00	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
534	Removing beehive of any size carefully in all levels at stage beams, columns, slabs, ladders etc., in the over head tank or other buildings / structures etc. While removing beehive, the contractor should follow all safety rules & regulations, all as per instructions of Engineer-in-charge.	nos	390.00	
535	Treatment for eradication of rat menace in buildings by applying radent treatment and providing trapes if necessary.	each	4.00	
536	Destruction of stray dogs found in the township area by applying poisons as prescribed and explained by the department supervisor concerned including the dispisal of dead animal by way of collection, carrying and burying them in a scientific way at the places as directed by the department including cost of materials and machinery required etc for stray dogs.	nos	10.00	
537	Removing of silt and debris from the open drains and removing and replacing of approach paths wherever required to remove the silt underneath the approach paths, including loading, unloading and conveyance to a distance of 2 kms and spreading at the places as directed by the Engineer-in-charge.	One Rmt	5.32	
538	Removal of silt , debris and vegetation growth from the nallahs including loading, unloading and conveyance to a distance of 2 kms and spreading at the places as directed by the Engineer-in-charge.			
538.1	Bed width upto 5M	One Rmt	72.00	
538.2	Bed width upto 10M	One Rmt	144.00	
539	Removing silt and debris from the R.C.C hume pipes of all dia. Provided at the approches to residential and non-residential buildings, etc.,	One Rmt	33.96	
540	Supply of SFRC Medium Duty Approach Slabs for open drains including transportation and placing at one location etc complete all as directed by Engineer-in-charge.			
540.1	Size 1000 x 600 x 60 mm	No	933.00	
540.2	Size 1200 x 600 x 60 mm	No	1117.00	
REPAIRS TO FURNITURE				
541	Recaning of chairs.			
541.1	Recaning of ordinary chair back rest	Each	90.00	
541.2	Recaning of ordinary chair seat	Each	90.00	
541.3	Revolving chair back rest.	Each	125.00	
541.4	Revolving chair seat.	Each	125.00	
541.5	On bed support back rest.	Each	275.00	
542	Repairs to steel tubular chairs.			
542.1	Re-fitting with new screws, bolt & nuts.	Each	75.00	
542.2	Supply and fixing of new back rest.	Each	270.00	
542.3	Supply and fixing of new seats	Each	270.00	
542.4	Supply and fixing of chair wooden arm rest.	Each	75.00	
542.5	Supply and fixing of rubber shoes.	Each	10.00	
542.6	Supply and fixing of chair end caps	Each	10.00	
543	Revolving, High back, Cushion chairs.			
543.1	Servicing / Repairing of revolving chairs.	Each	75.00	
543.2	Re-fitting with new screws, bolt & nuts.	Each	75.00	
543.3	Welding of revolving / High back chair	Each	250.00	
543.4	Supply and fixing of revolving chair castor wheels.	Each	135.00	
543.5	Supply and fixing of High back chair gas lift.	Each	1200.00	
543.6	Supply and fixing of High back chair bush	Each	300.00	
544	Steel table			
544.1	Servicing / Repairing of table.	Each	100.00	
544.2	Supply and fixing of table locks.	Each	200.00	
544.3	Supply and fixing of table handle.	Each	75.00	
544.4	Supply and fixing of rubber shoes.	Each	10.00	
545	Steel Alamarahs			
545.1	Servicing / repairing of alamarah	Each	100.00	
545.2	Supply and fixing of alamarah locks.	Each	300.00	
545.3	Supply and fixing of alamarah handles.	Each	175.00	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
545.4	Supply and fixing of almerah shelf hooks	Each	20.00	
545.5	Minot denting and welding of alamarah	Each	350.00	
545.6	Supply and fixing of licking rod and lever set	Each	350.00	
545.7	Supply and fixing of alamarah floor legs 450 x 125 mm height x 100 mm width.	Sets	600.00	
546	Opening of Locked steel furniture a such as tables, alamarah etc. without damaging the furniture.	Each	200.00	
547	Manufacturing and supplying duplicate keys 2 Nos. suitable to existing locks (as per measurements to a obtained form the lock)	Pairs	90.00	
548	Repairing of bed side lockers and welding.	Each	175.00	
549	Supply and fixing of bed side locker and handles.	Each	170.00	
550	Repairing and weliding of steel cots.	Each	375.00	
551	Cutting of hospital bed legs x uniform height and providing shoes to legs of various sizes.	Each	100.00	
552	Supply and fixing of steel cot nut and bolt fixing.	Each	25.00	
553	Servicing / Repairing flower bed cot / decolum flower cot.	Each	600.00	
554	Supply & fixing Rubber Shoes / of aspectic furniture, cots etc.			
554.1	1/2" to 3/4" dia pipe shoes.	Each	25.00	
554.2	3/4" to 1" dia pipe shoes.	Each	30.00	
554.3	1" to 1 1/2" dia pipe shoes.	Each	35.00	
555	Reparing the teak wood furniture and making them good to use including cost of all materials etc., complete as directed.			
555.1	Teak wood armless chairs.	Each	50.00	
555.2	Teak wood chairs with arms.	Each	50.00	
555.3	Teak wood sitting benches.	Each	100.00	
555.4	Teak wood stools.	Each	50.00	
555.5	Teak wood single desk with benches.	Each	150.00	
555.6	Teak wood double desk with benches.	Each	200.00	
555.7	Teak wood writing tables of all sizes.	Each	150.00	
556	Tightening the joints of wooden furniture items by nails / screws etc, including making good for reuse as directed by Engineer-in-charge.	Each	10.00	
557	Supply and fixing of best teak wood required size (planks, scantling and reapers).	One Cum	52090.00	
558	Applying two coats of spray painting to all steel aspetic furniture with synthetic enamel paint of an approved coloured brand including scraping surface, cost of all materials etc., complete.			
558.1	Almerah (large)	Each	1550.00	
558.2	Almerah (small)	Each	1400.00	
558.3	Office table (Clerk table)	Each	600.00	
558.4	Office table (Jr. Executive table)	Each	800.00	
558.5	Office table (Sr. Executive table)	Each	1200.00	
558.6	Steel racks upto 3 feet.	Each	600.00	
558.7	Steel racks upto 8 feet.	Each	1400.00	
558.8	Filing cabinet (4 draws)	Each	1000.00	
558.9	Filing cabinet (2 draws)	Each	800.00	
558.1	Revolving chair	Each	200.00	
558.11	Tubular chairs	Each	100.00	
558.12	Dining chairs	Each	150.00	
558.13	3 seater PVC tubular guest chair / for pipe only.	Each	170.00	
558.14	Dining table (8 seater for canteen).	Each	1250.00	

Contractor

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
558.15	Bed side lockers.	Each	250.00	
558.16	Cots (Big)	Each	450.00	
558.17	Cots for children	Each	400.00	
558.18	Cots with decolum flower steel	Each	600.00	
558.19	Flower cots	Each	550.00	
558.2	Cot with cradle	Each	600.00	
558.21	Cradles	Each	200.00	
558.22	Table for Dispensary / Stecture	Each	450.00	
558.23	Examination couch tables	Each	400.00	
558.24	Laboratory table (big)	Each	400.00	
558.25	Dispensary wheel chair	Each	450.00	
558.26	Instrumental cabinet (big)	Each	475.00	
559				
559.1	Instrucmental cabinet (small)	Each	375.00	
559.2	Bed side screens	Each	125.00	
559.3	I.V.stands	Each	100.00	
559.4	Foot steps	Each	75.00	
559.5	Back rest	Each	75.00	
559.6	Walker stand	Each	75.00	
559.7	Wash basin stand	Each	75.00	
559.8	Oxygen cylinderstand	Each	75.00	
559.9	Medicine trolley	Each	100.00	
559.1	Dressing trolley	Each	100.00	
559.11	Baby trolley	Each	75.00	
559.12	Dental eash chairs	Each	450.00	
559.13	Revolving stools	Each	75.00	
559.14	Canteen big trolley	Each	500.00	
560	Apply two coats of synthetic enamel paint to old wood work and furniture.			
560.1	Tables / Dining tables	Each	350.00	
560.2	Table / Dining table (big)	Each	450.00	
560.3	Bench with wooden back	Each	350.00	
560.4	Foot steps	Each	75.00	
560.5	Stools	Each	75.00	
560.6	Physiotherapy table	Each	450.00	
560.7	Long benches (Big)	Each	300.00	

SCHEDULE OF RATES

BHEL ITEM NO	DESCRIPTION	UNIT	Contractors Rate(Rs)	Remarks
560.8	Cane easy chairs.	Each	500.00	
560.9	Wooden alamaraih	Each	800.00	
561	Apply two coats of polishing with shillack or other equivalent brand on old wood work furniture items including sand papering, finishing etc complete all as directed by Engineer-in-charge.			
561.1	Tables / Dining tables	Each	450.00	
561.2	Wooden long bench	Each	450.00	
561.3	Wooden long bench with back.	Each	600.00	
561.4	Stools	Each	150.00	
561.5	Wooden alamaraih	Each	100.00	
561.6	Foot steps.	Each	150.00	
562	Removing the existing tapestry and restiching the same with new tapestry of approved colour and quality including attending to repairs, providing walling, polishing, buffers etc complete including cost of all materials, cost of 'U' foam, tapestry. The rate shall include the transportation charges of the furniture.			
562.1	Three seater sofa.	Each	7500.00	
562.2	Two seater sofa.	Each	5550.00	
562.3	Single seater sofa.	Each	2550.00	
562.4	Wooden guest cushioned chairs.	Each	1650.00	
562.5	Steel tubular guest cushioned chairs.	Each	1250.00	
562.6	Revolving high back chair (cushioned).	Each	1450.00	
562.7	Revolving low back chair (cushioned).	Each	1250.00	
562.8	Revolving computer chairs (cushioned)	Each	1200.00	

Lettering of Boards and Banners

563	Applying one coat of synthetic enamel paint of an approved brand and shade to road surface / kerb stones including cleaning the stones properly, cost of all materials and labour etc complete synthetic enamel paint of approved shade and brand to kerb stones etc complete all as directed by Engineer-in-charge..	Sqm	37.40	
564	Applying one coat of synthetic enamel paint of approved brand and shade to road sign boards including cost of all materials, labour etc complete all as directed by Engineer-in-charge.	Sqm	18.45	
565	Painting the township layout on supplied boards approximate Size 3.00x1.50 M, as per the layout with different shades indicating the functional and residential buildings separately and in different colours for various types, bordering, index preparations, key plan etc, complete as per the instructions (The paints shall be of synthetic enamel for G.P of approved make). The rate quoted shall include rubbing the existing painting surface and cost of all the materials like brushes and paintsetc complete all as directed by Engineer-in-charge.	Sqm	70.15	
566	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.	Sqm	628.00	
567	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.	Sqm	301.07	
568	Supply and fixing of multi colour digital printing on paper with lamination on 10 mm M.D.F.Board Supporting with Iron Frame including all incidental charges etc complete as directed by Engineer-in-charge etc directed by Engineering - in charge.	Sqm	2105.40	
569	Supply and fixing of satın 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.	Nos	21.37	

Contractor