

The Scientific Costing Guide

BuildCOST

Building Construction Cost Data



Item of Work Cost Database

2021

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01 45		Quality Control							
01 45 23		Testing And Inspecting Services		UNIT	BARE COST			TOTAL INCL OHP	
					Material	Labour	Equipment		TOTAL
21		Pile Test							
		Vertical load testing (INITIAL) of piles in accordance with IS 2911 (Part IV) including installation of loading platform / or reaction piles and preparation of pile head or construction of test cap and dismantling of test cap after test etc. to 150% of designed load, complete, of pile capacities :							
	10005	upto 50 ton		/test	46610.00	-	-	46610.00	53601.50
	10010	above 50 ton and upto 100 ton		/test	87084.00	-	-	87084.00	100146.60
	10015	add for every additional 50 ton or part thereof		/test/50 t	46610.00	-	-	46610.00	53601.50
		Vertical load testing (ROUTINE) of piles in accordance with IS 2911 (Part IV) including installation of loading platform / or reaction piles and preparation of pile head or construction of test cap and dismantling of test cap after test etc. to 150% of designed load, complete, of pile capacities :							
	10020	Upto 50 ton		/test	46610.00	-	-	46610.00	53601.50
	10025	above 50 ton and upto 100 ton		/test	87084.00	-	-	87084.00	100146.60
	10030	add for every additional 50 ton or part thereof		/test/50 t	36816.00	-	-	36816.00	42338.40
		Cyclic vertical load testing of pile in accordance with IS:2911 (part IV) including preparation of pile head etc., to 150% of designed load, complete, of pile capacities :							
	10035	upto 50 ton		/test	46610.00	-	-	46610.00	53601.50
	10040	above 50 t and upto 100 ton		/test	87084.00	-	-	87084.00	100146.60
	10045	add for every additional 50 ton or part thereof		/test/50 t	46610.00	-	-	46610.00	53601.50
		Lateral load testing of single pile in accordance with IS:2911 (Part IV) to 150% of designed load, complete, of pile capacities :							
	10050	upto 50 ton		/test	46610.00	-	-	46610.00	53601.50
	10055	Above 50 ton and upto 100 ton		/test	75048.00	-	-	75048.00	86305.20
	10060	Add for every additional 50 ton or part thereof.		/test/50 t	46610.00	-	-	46610.00	53601.50
		Vertical load testing (INITIAL) of piles in accordance with IS 2911 (Part IV) including installation of loading platform / or reaction piles and preparation of pile head or construction of test cap and dismantling of test cap after test etc. to 250% of designed load complete, of pile capacities :							
	10065	upto 50 ton		/test	46610.00	-	-	46610.00	53601.50
	10070	above 50 ton and upto 100 ton		/test	87084.00	-	-	87084.00	100146.60
	10075	add for every additional 50 ton or part thereof		/test/50 t	46610.00	-	-	46610.00	53601.50
		Vertical load testing (ROUTINE) of piles in accordance with IS 2911 (Part IV) including installation of loading platform / or reaction piles and preparation of pile head or construction of test cap and dismantling of test cap after test etc. to 250% of designed load, complete, of pile capacities :							
	10080	upto 50 ton		/test	46610.00	-	-	46610.00	53601.50
	10085	above 50 ton and upto 100 ton		/test	70446.00	-	-	70446.00	81012.90
	10090	add for every additional 50 ton or part thereof		/test/50 t	46610.00	-	-	46610.00	53601.50
50		Testing							
		Conducting laboratory tests at approved laboratory, including preparation and taking of samples to laboratory, testing of samples and getting and submitting test results :							

01 45 Quality Control								
01 45 23		Testing And Inspecting Services	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
	10005	Compressive strength test on rock samples	/test	2360.00	-	-	2360.00	3068.00
	10010	Chemical analysis of soil samples	/test	2360.00	-	-	2360.00	2714.00
	10015	Chemical analysis of water samples	/test	2360.00	-	-	2360.00	2714.00

02 32 Geotechnical Investigations								
02 32 19		Exploratory Excavations	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
17		Test Pit						
		Drilling 150 mm diameter bore holes in all type of soils by manual auguring, conducting standard penetration tests, collecting disturbed and undisturbed soil samples, conducting necessary laboratory tests, recommending suitable type of foundation and allowable bearing pressure and submission of report in three copies :						
	10005	Ground level to 6.0 m or refusal, whichever is earlier	m	649.00	-	-	649.00	746.35
	10010	Over 6.0 m and upto 10.0 m or refusal, whichever is earlier	m	708.00	-	-	708.00	814.20
	10015	Over 10.0 m and upto 12.0 m or refusal, whichever is earlier	m	767.00	-	-	767.00	882.05
		Drilling 150 mm diameter bore holes in all type of soils by Calyx drilling, conducting standard penetration tests, collecting disturbed and undisturbed soil samples, conducting necessary laboratory tests, recommending suitable type of foundation and allowable bearing pressure and submission of report in three copies :						
	10020	Ground level to 6.0 m or refusal, which is earlier	m	1298.00	-	-	1298.00	1492.70
	10025	Over 6.0 m and upto 10.0 m or refusal, which is earlier	m	1357.00	-	-	1357.00	1560.55
	10030	Over 10.0 m and upto 12.0 m or refusal, which is earlier	m	1475.00	-	-	1475.00	1696.25
		Drilling 100 mm dia bore hole in rock using double core barrel Diamond/TC including recovery of cores, wherever possible and keeping a log of the same :						
	10035	Weathered / disintegrated rock	m	2714.00	-	-	2714.00	3121.10
	10040	Hard rock	m	5723.00	-	-	5723.00	6581.45

02 41 Demolition								
02 41 13		Selective Site Demolition	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
21		Concrete / Rcc / Masonry Demolition						
	10005	Demolishing lime concrete / cement concrete in all mixes, in foundations, super structure and basement, at all heights / depths, including disposal of unserviceable materials upto a 50 m lead.	cum	-	383.74	-	383.74	441.30
	10010	Demolishing RCC work in foundations, super structure and basement, at all heights / depths, including cutting, straightening scrapping, cleaning and stacking of reinforcement bars and disposal of unserviceable materials upto a 50 m lead.	cum	-	1573.32	-	1573.32	1809.32
	10015	Demolishing RB work in foundations, super structure and basement, at all heights / depths, including cutting, straightening scrapping, cleaning and stacking of reinforcement bars and disposal of unserviceable materials upto a 50 m lead.	cum	-	1430.30	-	1430.30	1644.85
	10020	Dismantling / Demolishing brick work in cement / lime mortar in foundations, super structure and basement, at all heights / depths, including removing of mortar, cleaning bricks and stacking of serviceable materials and disposed of unserviceable materials upto 50 m lead	cum	-	1748.15	-	1748.15	2010.37

02 41 Demolition								
02 41 13		Selective Site Demolition	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
	10025	Dismantling / demolishing stone rubble masonry in cement / lime mortar in foundations, super structure and basement at all heights / depths including stacking of serviceable materials and disposal of unserviceable materials upto a 50 m lead.	cum	-	1097.68	-	1097.68	1262.33
22		Ceiling Demolition						
		Dismantling false ceiling, partitions, wall lining, etc supported / fixed to wooden / aluminium / metal frame including dismantling of frame, stacking of serviceable material and disposal of unserviceable material upto a 50 m lead, with :						
	10005	Plaster of Paris /Gypsum / Plywood / Block board / Particle board / MDF sheets / tiles	sqm	-	77.56	-	77.56	89.19
	10010	Wooden planks	sqm	-	116.35	-	116.35	133.80
	10015	Glass / Mirror / Fabric / Extruded metal	sqm	-	155.40	-	155.40	178.71
	10020	Asbestos cement, celotax or other hard board	sqm	-	77.56	-	77.56	89.19
24		Flooring Demolition						
		Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness :						
	10005	10 mm to 25 mm	sqm	-	38.94	-	38.94	44.78
	10010	over 25 mm and upto 40 mm	sqm	-	59.59	-	59.59	68.53
	10015	Dismantling dry brick pitching in floors, drains etc, including stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead.	sqm	-	67.92	-	67.92	78.11
	10020	Dismantling stone slab flooring in cement mortar / lime mortar, including stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead.	sqm	-	118.90	-	118.90	136.74
		Demolition of flooring including stacking of serviceable materials and disposal of unserviceable materials upto a 50m lead, with :						
	10025	Parquet flooring	sqm	-	43.66	-	43.66	50.21
	10030	PVC flooring	sqm	-	9.44	-	9.44	10.86
	10035	Carpet flooring	sqm	-	9.44	-	9.44	10.86
25		Framing Demolition						
		Dismantling woodwork in frames, trusses, purlins and rafters upto a 10 metres span and 5 metres height including stacking the material within a 50 m lead, of sectional areas :						
	10005	upto 4000 sqmm	m	-	9.92	-	9.92	11.41
	10010	over 4000 sqmm	cum	-	2478.00	-	2478.00	2849.70
	10015	Dismantling steel work in built up sections at all heights and depths, in angles, tees, flats, channels and tubes including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 m lead.	Quintal	-	283.08	-	283.08	325.54
	10020	Dismantling steel work in single sections at all heights and depths including dismembering and stacking within a 50 m lead.	Quintal	-	169.85	-	169.85	195.33
26		Lining Dismantling						
		Dismantling and removing wooden boardings in lining of walls and partitions, excluding supporting members, but including stacking						

03 05 Common Work Results For Concrete							
03 05 13	Basic Concrete Materials	UNIT	BARE COST				TOTAL INCL OHP
			Material	Labour	Equipment	TOTAL	
20	Admixture, Concrete						
	Providing and mixing admixtures, conforming to IS:9103, in recommended proportions, in concrete :						
	10005 Accelerating admixtures	kg	87.84	9.44	-	97.28	111.87
	10010 Retarding admixtures	kg	96.35	9.44	-	105.79	121.66
	10015 Air entraining admixture	kg	91.89	9.44	-	101.33	116.53
	10020 Water reducing admixtures (Plasticizer/Super Plasticizer)	kg	143.14	9.44	-	152.58	175.47
21	Concrete Additives						
	10005 Providing and mixing water proofing compound, conforming to IS:2645, in cement concrete/reinforced concrete works.	kg	109.65	9.44	-	119.09	136.95

03 11 Concrete Forming							
03 11 13	Structural Cast-in-place Concrete Forming	UNIT	BARE COST				TOTAL INCL OHP
			Material	Labour	Equipment	TOTAL	
18	Forms In Place						
	Providing and fixing centering and shuttering for concrete work (plain and reinforced) in following locations, including strutting, propping, bracing, bolting tie bolt / spring coil / plastic cone, wedging, easing, striking, removal etc, complete. Allow for forming grooves, drips, throats, chamfers, cut-outs, openings etc. where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is up to 4.00 m :						
	10005 Sides of footings of columns and walls and sides of base slabs.	sqm	77.07	123.90	-	200.97	231.12
	10010 Foundation beams, floor channels, kerb stones and drain walls.	sqm	77.07	123.90	-	200.97	231.12
	10015 Sides of columns, piers and pedestals of any shape, size and profile.	sqm	100.19	393.30	-	493.49	567.51
	10020 Sides of walls, retaining walls, attached columns, pilasters.	sqm	76.00	355.42	-	431.42	496.13
	10025 Soffits and sides of beams, plinth beams, lintels, ties, ribs, pergolas and such other, string courses, cornices, corbels.	sqm	79.41	283.20	-	362.61	417.00
	10030 Sides of facias, parapets, railings, planting boxes and such other vertical elements.	sqm	71.89	495.77	-	567.66	652.81
	10035 Soffits and sides of suspended slabs, floor and roof projections, landing slabs, canopies, chajjas, slabs of planting boxes and such other horizontal elements, coffer ribs and slabs.	sqm	77.72	393.30	-	471.02	541.67
	10040 Soffits and sides of waist slabs of stairs, sides of risers and stepped waist slabs, spiral staircases, etc.	sqm	59.14	430.65	-	489.79	563.26
	10045 Sides of mullions, suspenders, struts, ties, slings including flarings or taperings of any shape and profile.	sqm	95.08	854.54	-	949.62	1092.06
	10050 Soffits of inclined slabs and ramps, folded plates. (slopes more than 15o and upto 45o)	sqm	80.16	495.77	-	575.93	662.32
	10055 Arches, archribs, domes, shells, vaults, etc.	sqm	412.77	911.31	-	1324.08	1522.69
	10060 Well Steinings	sqm	90.53	2015.19	-	2105.72	2421.58
	10065 Vertical and horizontal fins individually or forming boxes	sqm	71.89	495.77	-	567.66	652.81
	10070 Chimney shafts	sqm	76.00	355.42	-	431.42	496.13

04 21		Clay Unit Masonry		BARE COST				TOTAL INCL OHP
04 21 13	Brick Masonry	UNIT	Material	Labour	Equipment	TOTAL		
46	Brick Work, Conventional Bricks							
	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in :							
	10005 Foundations and plinths (1.5 m below and upto 1.2 m above GL)	cum	2905.16	1380.38	50.15	4335.69	4986.04	
	10010 Superstructures upto 20.0 m above plinth level.	cum	2905.16	2644.99	135.23	5685.38	6538.19	
	10015 Basement, under ground water tank and the like, upto 7.0 m below GL	cum	2905.16	1941.57	78.87	4925.60	5664.44	
	10020 Arches, vaults, domes, etc., in super structures/basements and the like in cement mortar 1:3 with coarse sand including centering, shuttering, strutting, propping, wedging, bolting and removal, etc., complete.	cum	4324.27	4132.31	108.75	8565.33	9850.13	
	10025 Add for every additional 4.0 m height or part thereof for brick work/exposed brick work beyond 7.0 m below GL	cum	-	354.90	-	354.90	408.14	
	10030 Add for every additional 20.0 m height or part thereof for brick work/exposed brick work beyond 20.0 m above plinth level	cum	-	704.46	-	704.46	810.13	
	10035 Add for brick work in cement mortar 1:4 in place of 1:6	cum	247.00	-	-	247.00	284.05	
	10040 Add for brick work in cement mortar 1:3 in place of 1:6	cum	494.00	-	-	494.00	568.10	
	10045 Deduct for brick work in cement mortar with fine sand in place of coarse sand	cum	55.43	-	-	55.43	63.74	
	10050 Add for brick work/exposed brick work in square or rectangular pillars	cum	-	542.14	-	542.14	623.46	
	10055 Add for brick work, curved in plan/elevation, upto mean radius not exceeding 6.0 m	cum	154.98	450.28	-	605.26	696.05	
	10060 Add for cutting or chamfering the bricks to required shape in masonry work	m	-	22.06	-	22.06	25.37	
	10065 Deduct for using bricks of class 50 in place of class 75	cum	155.61	-	-	155.61	178.95	
	10070 Providing 70 mm thick and 57 mm projected string course/ band with bricks of class 75 in cement mortar 1:4 with coarse sand	m	12.77	12.82	0.56	26.15	30.07	
	10075 Providing and making mouldings, cornices & corbels with bricks of class 75 in cement mortar 1:4 with coarse sand (girth to be measured in mm and length in running metres)	100 mm/m	11.91	14.41	0.54	26.86	30.89	
	Providing brick work with bricks of class 75 in half brick thick walls in any shape and profile including curvilinear, laid in cement mortar 1:4 with coarse sand, joints finished flush/raked to 12 mm depth, cured, including scaffolding and flat reinforcement (25 x 3 mm) at every fourth course and embedding the same in adjoining masonry/columns by drilling holes etc complete :							
	10080 Super structure upto 20.0 m above plinth level.	sqm	460.95	304.58	9.76	775.29	891.58	
	10085 Basements, and the like, upto 7.0 m below GL	sqm	460.95	251.91	10.97	723.83	832.40	
	10090 Arches, domes, vaults at all levels in cement mortar 1:3 with coarse sand including centring and shuttering strutting, propping, bolting and removal complete. (Flat iron reinforcement 25 x 3 mm not to be provided)	sqm	788.11	1232.31	10.97	2031.39	2336.10	
	10095 Add for every 4.0 m height or part thereof for	sqm	-	40.69	-	40.69	46.79	

05 05 Common Work Results For Metals								
05 05 23		Metal Fastenings	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Bolts & Hex Nuts						
	10005	Providing and fixing MS bolts upto 300 mm in length including nuts and washers, complete.	kg	56.01	47.09	-	103.10	118.57
88		Welding						
	10005	Gas welding including mobilization at site, complete, (for designed structural welding).	10 mm/m	312.70	-	-	312.70	359.61
	10010	Gas welding including mobilization at site, complete, (for non structural welding).	10 mm	4.35	-	-	4.35	5.00
	10015	Electric arc welding including mobilization at site, complete (for designed structural welding).	10 mm/m	236.00	-	-	236.00	271.40
	10020	Electric arc welding including mobilization at site, complete (for non structural welding).	10 mm	3.45	-	-	3.45	3.97

05 12 Structural Steel Framing								
05 12 23		Structural Steel For Buildings	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
23		Structural Steel Built Up Section						
		Providing, fabricating and erecting built up steel tubular trusses, welded and bolted including special shaped washers, etc. and applying a primer coat of zinc chromate on duly prepared surfaces, complete :						
	10005	Hot finished, welded tubes	kg	142.12	36.82	-	178.94	205.78
	10010	Hot finished, seamless tubes	kg	142.12	36.82	-	178.94	205.78
	10015	Electric resistance or induction welded tubes	kg	142.12	36.82	-	178.94	205.78
	10020	Providing, fabricating and erecting bolted structural steel built up sections, trusses and frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete.	kg	67.55	25.80	-	93.35	107.35
	10025	Providing, fabricating and erecting welded structural steel built up sections in trusses and frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete.	kg	70.89	17.80	-	88.69	101.99
	10030	Providing and applying three finish coats of synthetic enamel paint on steel surfaces, complete.	sqm	2716.14	94.76	-	2810.90	3232.54
81		Structural Steel Single Section						
	10005	Providing, fabricating and erecting structural steel, single sections, and applying a primer coat of zinc chromate on duly prepared surfaces, complete.	kg	77.29	15.45	-	92.74	106.65
	10010	Providing and fixing wind ties of MS section	kg	64.89	12.98	-	77.87	89.55

05 51 Metal Stairs								
05 51 16		Metal Floor Plate Stairs	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
13		Steel Stairs						
		Providing, fabricating and erecting MS welded built up sections/ frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete :						
	10005	In stringers, treads, landings, etc. of staircases including chequered plates wherever required, all complete.	kg	91.14	7.56	-	98.70	113.51

05 51 Metal Stairs								
05 51 16		Metal Floor Plate Stairs	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
	10010	In guard bars, ladders, railings, and similar works.	kg	70.42	44.01	-	114.43	131.59
		Providing, fabricating and erecting hand rails by welding to steel ladders/railings, balcony railings, and staircase railings including primer coat of zinc chromate on duly prepared surfaces, complete :						
	10015	MS black tubes	kg	258.64	38.60	-	297.24	341.83
	10020	ERW tubes	kg	258.64	38.60	-	297.24	341.83
	10025	Galvanised steel pipes	kg	212.24	38.60	-	250.84	288.47
	10030	Structural steel sections, flats, angles, channels, etc.	kg	91.46	36.28	-	127.74	146.90

05 55 Metal Stair Treads And Nosings								
05 55 13		Metal Stair Treads	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
51		Stair Treads And Nosing						
	10005	Providing and fixing MS angles 50 x 50 x 5 mm nosing with lugs of MS flats 10 x 5 mm, 100 mm long and forked at ends, 600 mm apart (minimum three lugs to be provided) including necessary welding and applying a primer coat on exposed surfaces etc., complete.	kg	84.16	35.21	-	119.37	137.28
	10010	Providing and fixing aluminium angles 35 x 35 x 3 mm nosing with lugs of flats 10 x 3 mm, 100 mm long and forked at ends, 600 mm apart (minimum three lugs to be provided) including necessary welding, etc., complete.	kg	392.82	224.71	-	617.53	710.16
		Providing and fixing aluminum strip edge to staircases including fixing with rawl plugs and stainless steel screws, with under layer of cement mortar 1:3 with coarse sand, of strip edging of size :						
	10015	57 x 12 x 3 mm	m	291.32	130.24	-	421.56	421.56
	10020	38 x 12 x 3 mm	m	298.82	130.24	-	429.06	493.42

05 73 Decorative Metal Railings								
05 73 23		Ornamental Railings	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
50		Railings, Ornamental						
		Providing, fabricating and erecting MS balusters in stair flight slabs, landing balconies and similar other railings, anchored to steps, landings etc., all fixing accessories including providing pockets in concrete/brick works and grouting with ironite or other equivalent, applying three coats of synthetic enamel paint over a primer coat of zinc chromate on duly prepared surfaces, complete.						
	10005	Solid sections	kg	232.10	128.67	-	360.77	414.89
	10010	Hollow sections	kg	238.36	128.67	-	367.03	422.08

06 11 Wood Framing								
06 11 10		Framing With Dimensional, Engineered Or Composite Lumber	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
12		Ceiling Framing						
		Providing, fabricating and fixing in position selected quality seasoned and chemically treated wood work in frames of false ceilings, partitions, etc., complete :						
	10005	1st class Deodar wood.	cum	57504.10	7743.75	-	65247.85	75035.03
	10010	2nd class Deodar wood.	cum	56378.50	7743.75	-	64122.25	73740.59
	10015	Sal wood	cum	34353.70	7743.75	-	42097.45	48412.07
	10020	2nd class Kail wood	cum	28346.65	7743.75	-	36090.40	41503.96
	10025	Hollock wood	cum	36481.00	7743.75	-	44224.75	50858.46
40		Wall Framing						
		Providing and fixing wooden frame with 50 mm x 50 mm battens, fixed at 600 mm centre to centre (both ways). Allow for solignum treatment to the timber framework :						
	10005	Sal wood	sqm	416.16	260.90	-	677.06	778.62
	10010	2nd class CP teak Wood	sqm	730.05	260.90	-	990.95	1139.59
		Providing and fixing wooden framework with 50 mm x 75 mm battens, fixed at 600 mm centre to centre(both ways). Allow for solignum treatment to the timber framework :						
	10015	Sal wood	sqm	579.94	379.68	-	959.62	1103.56
	10020	2nd class CP Teak Wood	sqm	1050.77	379.68	-	1430.45	1645.02

06 17 Shop-fabricated Structural Wood								
06 17 53		Shop-fabricated Wood Trusses	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Roof Trusses						
		Providing, fabricating and fixing in position selected quality seasoned & chemically treated wrought wood work in trusses, rafters, runners posts, struts, walls plates etc. of size and profile in inclind roofs including anchoring to concrete members with holding down bolts, fixing accessories & all incidental works (Flat, angles, other steel sections and holding down bolts used in connections will be paid separately), complete :						
	10005	2nd class CP teak wood	cum	70506.48	10270.14	-	80776.62	92893.11
	10010	1st class Deodar wood	cum	54460.86	10270.14	-	64731.00	74440.65
	10015	2nd class Deodar wood	cum	52758.48	10270.14	-	63028.62	72482.91
	10020	Sal wood	cum	33916.02	10270.14	-	44186.16	50814.08
	10025	Hollock wood	cum	34159.80	10270.14	-	44429.94	51094.43

06 22 Millwork								
06 22 13		Standard Pattern Wood Trim	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
12		Mouldings						
		Providing and fixing select quality seasoned and chemically treated wooden moulded beadings to door and window frames with mild steel screws/headless nails and a primer coat on unexposed surface, etc. complete, of beading sizes :						
		Burma teak wood :						
	10005	30 x 12 mm	m	37.05	90.15	-	127.20	146.28

06 22 Millwork								
06 22 13		Standard Pattern Wood Trim	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
	10010	40 x 12 mm	m	51.95	90.15	-	142.10	163.42
	10015	40 x 20 mm	m	83.08	90.15	-	173.23	199.21
	10020	50 x 12 mm	m	63.78	90.15	-	153.93	177.02
	10025	50 x 20 mm	m	102.55	90.15	-	192.70	221.61
		2nd class CP teak wood :						
	10030	30 x 12 mm	m	30.35	90.15	-	120.50	138.58
	10035	40 x 12 mm	m	42.14	90.15	-	132.29	152.13
	10040	40 x 20 mm	m	66.72	90.15	-	156.87	180.40
	10045	50 x 12 mm	m	51.51	90.15	-	141.66	162.91
	10050	50 x 20 mm	m	94.94	90.15	-	185.09	212.85
		Ghana teak wood :						
	10055	30 x 12 mm	m	26.49	90.15	-	116.64	134.14
	10060	40 x 12 mm	m	36.47	90.15	-	126.62	145.61
	10065	40 x 20 mm	m	68.61	90.15	-	158.76	182.57
	10070	50 x 12 mm	m	44.43	90.15	-	134.58	154.77
	10075	50 x 20 mm	m	70.30	90.15	-	160.45	184.52
		2nd class Deodar wood :						
	10080	30 x 12 mm	m	24.69	90.15	-	114.84	132.07
	10085	40 x 12 mm	m	42.89	90.15	-	133.04	153.00
	10090	40 x 20 mm	m	52.80	90.15	-	142.95	164.39
	10095	50 x 12 mm	m	41.84	90.15	-	131.99	151.79
	10100	50 x 20 mm	m	77.63	90.15	-	167.78	192.95
		Rubber wood :						
	10105	30 x 12 mm	m	17.44	90.15	-	107.59	123.73
	10110	40 x 12 mm	m	23.20	90.15	-	113.35	130.35
	10115	40 x 20 mm	m	35.15	90.15	-	125.30	144.10
	10120	50 x 12 mm	m	27.84	90.15	-	117.99	135.69
	10125	50 x 20 mm	m	42.64	90.15	-	132.79	152.71

06 26 Board Paneling								
06 26 13		Profile Board Paneling	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Paneling, Boards						
		Providing and fixing in wall lining flat pressed three layer & graded (medium density) particle boards, prelaminate, one side decorative lamination and on other side balancing lamination, grade I, Type II, conforming to IS:12823, with necessary fixing arrangements and screws etc. complete, of thicknesses :						
	10005	12 mm	sqm	2936.52	196.73	-	3133.25	3603.24
	10010	18 mm	sqm	3776.10	196.73	-	3972.83	4568.75
11		Pre-finished Paneling						
	10005	Providing and fixing 9 mm thick laminated wall panelling made of melamine impregnated MDF board having tongue and groove jointing system, complete with accessories like wall base skirting and other profiles complete.	sqm	3556.76	288.05	4.01	3848.82	4426.14

06 42 Wood Paneling								
06 42 10		Wood Paneling	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	

07 11 Dampproofing								
07 11 17		Damp-proof Course	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Damp-proof Course						
		Providing and laying damp-proof course with cement concrete 1:2:4 with graded stone aggregate 12.5 mm nominal size, including side shuttering, compacting etc., complete.						
	10005	40 mm thick	sqm	189.07	156.13	22.07	367.27	422.36
	10010	50 mm thick	sqm	234.36	172.94	24.47	431.77	496.54
	10015	Providing and mixing waterproofing material in cement concrete work @ 1.0 kg per 50 kg bag of cement used in the mix.	kg/50kg	109.65	9.44	-	119.09	136.95
	10020	Applying a coat of residual petroleum bitumen of penetration 80/100 @ 1.70 kg/sq. on damp-proof course.	sqm	85.67	25.31	-	110.98	127.63

07 13 Sheet Waterproofing								
07 13 13		Bituminous Sheet Waterproofing	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
13		Built-Up Sheet Waterproofing						
		Providing and laying vapour barrier of low density polythene film (700 microns), laid in blown grade bitumen at 1 kg. per. sqm, over a coat of primer at 400 gms per sqm and finished with a coat of bitumen at 1 kg per sqm as per specifications, complete :						
	10005	Over RCC roof surfaces.	sqm	278.50	38.94	-	317.44	365.06
	10010	On external wall surfaces.	sqm	278.50	45.43	-	323.93	372.52
		Providing and laying vapour barrier of aluminium foil 0.075 mm thick, laid in blown grade bitumen at 2 kg per sqm over a coat of primer at 400 gms per sqm and finished with a coat of bitumen at 1 kg per sqm as per specifications, complete :						
	10015	Over RCC roof surfaces	sqm	181.83	51.92	-	233.75	268.81
	10020	On external wall surfaces	sqm	181.83	51.92	-	233.75	268.81
	10025	Add for aluminum foil of thickness 0.1 mm instead of 0.075 mm	sqm	27.15	-	-	27.15	31.22
	10030	Painting top of roof surface with 80 / 100 penetration bitumen @ 1.7 kg per sqm impregnated with coarse sand, 6 mm thick, including cleaning of slab surface with brush and finally with a cloth soaked in kerosene oil.	sqm	91.37	49.33	-	140.70	161.81
	10035	Providing and laying damp-proofing treatment comprising a primer coat, one layer of aluminium foil 0.1 mm thick and two layers of bitumen at the rate of 2 kg per sqm per layer to ground floor/paving, complete.	sqm	220.23	51.92	-	272.15	312.97
	10040	Providing and laying waterproofing treatment to roof slabs comprising of Primer coat, one layer of fibre glass RP tissue, one layer of aluminium foil 0.10 mm thickness, three layers of bitumen at the rate of 2 Kg per sqm per layer, sealing of edges and corners as called for, complete.	sqm	284.86	77.88	-	362.74	417.15
	10045	Providing and laying damp-proofing treatment comprising a primer coat, one layer of fibre-glass RP tissue and two layers of bitumen at the rate 2 kg per sqm per layer in toilets and other areas including side and end laps, etc., complete.	sqm	149.92	77.88	-	227.80	261.97
	10050	Add for additional layer of aluminium foil, (0.10 mm thick) and additional layer of	sqm	134.94	25.96	-	160.90	185.04

07 13 Sheet Waterproofing								
07 13 13		Bituminous Sheet Waterproofing	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
		bitumen at the rate of 2 kg per sqm in roof surface treatment.						
	10055	Providing and laying at roof ridges and other locations, where called for, waterproofing treatment consisting of one layer of blown grade bitumen at 1 kg per sqm followed by one layer of fibreglass tissue laid and finished with one layer of bitumen at 1 kg per sqm.	sqm	128.70	51.92	-	180.62	207.71
	10060	Add for finishing the waterproofing treatment with 6 mm pea-size gravel at the rate of 1 cum per 100 sqm (bitumen layer for laying gravel included in waterproofing item).	sqm	8.48	3.32	-	11.80	13.57
	10065	Add for providing polymeric polythene felt membrane instead of fibre-glass RP tissue.	sqm	104.75	-	-	104.75	120.46
	10070	Deduct for providing hessian based self finish bitumen felt instead of fibre-glass RP tissue.	sqm	-84.73	-	-	-84.73	-97.44
	10075	Add for every additional coat of blown / residual bitumen applied hot @ 2 kg per sqm.	sqm	23.62	25.96	-	49.58	57.02
	10080	Add for every additional layer of fibre-glass RP tissue and bitumen @ 2 kg per sqm.	sqm	64.03	38.94	-	102.97	118.42

07 16 Cementitious And Reactive Waterproofing								
07 16 16		Crystalline Waterproofing	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
20		Cementitious Waterproofing						
	10005	Brick bat coba waterproofing treatment to terraces, terrace gardens, roof surfaces and such other locations where called for, by providing an even base layer of minimum 20 mm thick cement mortar 1:4 with coarse sand admixed with acrylic waterproofing compound, brick bats of size ranging from 40 mm to 100 mm, laid with gaps of 10 to 15 mm between them and grouted with cement mortar 1:4 with coarse sand and admixed with acrylic waterproofing compound, laid to slope of 1:120 or as specified and a protective coat of 20 mm thick cement mortar 1:4 with coarse sand admixed with acrylic waterproofing compound, fixing of rough Kotah stone of 18-20 mm thickness over a bed of cement mortar 1:4 with coarse sand admixed with acrylic waterproofing compound and joints grouted to full depth of stone with cement slurry admixed with acrylic waterproofing compound. Kotah stone shall be fixed within 48 hours of completing and laying the protective coat to brick coba treatment. Treatment to vertical faces of parapets, walls, beams, etc. will comprise 20 mm thick cement plaster 1:4 with coarse sand admixed with acrylic waterproofing compound and finished neat upto a height of 300 mm (only horizontal treatment area shall be measured for payment). The average thickness, excluding the Kotah stone and its bedding mortar, shall be 120 mm. The minimum thickness at khurra, excluding the Kotah stone and its bedding mortar, shall be 80 mm.	sqm	1161.68	1359.32	26.08	2547.08	2929.14

08 09 Metal Doors, Windows And Frames								
08 09 16		Aluminum Doors, Windows And Frames	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Aluminum Doors, Windows And Frames						
		Providing, fabricating and fixing aluminium doors, windows and ventilators with sections (IS 733 and IS 1825), 60 microns pure polyester coated, 25 microns colour nitred anodised (IS 1868), of grade AC 25, fixed with rawl plugs and screws / fixing clips / expansion hold fasteners and filling gaps with PVC / Neoprene felt along with aluminium snap beadings, CP brass/stainless steel screws for glazing / panelling complete (cost of glazing / panelling not included) (payment will be made for weight of aluminium used in the work).						
	10005	Fixed portion	kg	331.61	28.74	-	360.35	414.40
	10010	Shutters of doors, windows and ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings including PVC/neoprene gasket, complete (cost of fitting not included).	kg	355.39	37.88	-	393.27	452.26
08 09 21		Steel Doors, Windows And Frames	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Steel Doors, Windows And Frames						
		Providing and fixing MS glazed doors, windows and ventilators of standard heavy rolled steel sections, conforming to IS 7452-1990, joints mitred and welded with 15 x 3 mm lugs, 100 mm long, embedded in cement concrete blocks 150 x 100 x 100 mm of 1:3:6 with coarse sand or with wooden plugs and screws or rawl plugs and screws/ with fixing clips/ with bolts and nuts as required, including providing and fixing of 4 mm thick glass panes with glazing clips and special metal sash putty including three coats of synthetic enamel paint over a primer coat of zinc chromate on duly prepared surfaces excluding the cost of metal beading and other fittings except necessary hinges or pivot as required, complete :						
	10005	Doors	sqm	7734.91	534.75	2.01	8271.67	9512.42
	10010	Windows fixed	sqm	7198.60	534.75	2.01	7735.36	8895.66
	10015	Windows-side hung	sqm	7734.91	534.75	2.01	8271.67	9512.42
	10020	Ventilators-top hung	sqm	7198.60	534.75	2.01	7735.36	8895.66
	10025	Ventilators-centre hung	sqm	7198.60	534.75	2.01	7735.36	8895.66
		In composite units of doors, windows and ventilator :						
	10030	(For overall portion treated as fixed)	sqm	7198.60	534.75	2.01	7735.36	8895.66
		Add for side hung portion :						
	10035	Doors	sqm	536.31	-	-	536.31	616.76
	10040	Windows	sqm	536.31	-	-	536.31	616.76
	10045	Add for top hung portion.	sqm	0.00	-	-	0.00	0.00
	10050	Add for centre hung portion.	sqm	0.00	-	-	0.00	0.00
	10055	Add for providing vertical coupling, mullion bar, or horizontal coupling mullion bar (when openable windows are to be coupled above fixed ones or between two fixed windows) or horizontal coupling mullion bar (where windows are not exposed to weather).	m	131.93	19.54	-	151.47	174.19
	10060	Extra for providing horizontal coupling mullion bar or weather bar (especially used	m	168.58	24.97	-	193.55	222.58

08 09 Metal Doors, Windows And Frames								
08 09 21		Steel Doors, Windows And Frames	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
		when the coupled unit is exposed to rain).						
	10065	Add for providing and fixing stainless steel / aluminium beading of approved shape and section with SS screws instead of glazing clips and metal sash putty in steel doors, windows, ventilators and composite units.	m	103.47	13.81	-	117.28	134.87

08 11 Metal Doors And Frames								
08 11 13		Hollow Metal Doors And Frames	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
11		Hollow Metal Doors and Frames						
	10005	Providing, fabricating and fixing 1 mm thick MS sheet door with hollow MS section frame of 40 x 40 x 3 mm and 3 mm gussets at the junctions and corners with necessary fittings and three coats of synthetic enamel paint over a primer coat of zinc chromate on duly prepared surfaces, complete.	sqm	8284.83	1619.19	-	9904.02	11389.62
	10010	Providing, fabricating and fixing 1 mm thick MS sheet door with MS angle 40 x 40 x 6 mm frame, and 3 mm gussets at the junctions and corners with necessary fittings, three coats of synthetic enamel paint over a primer coat of zinc chromate on duly prepared surfaces, complete.	sqm	8286.29	1619.19	-	9905.48	11391.30
	10015	Add for MS angles 40 x 40 x 6 mm for diagonal braces.	sqm	1245.41	367.48	-	1612.89	1854.82
	10020	Add for MS flats 30 x 6 mm for diagonal braces and central cross piece.	sqm	588.62	353.70	-	942.32	1083.67

08 12 Metal Frames								
08 12 21		Steel Frames	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
13		Steel Frames						
	10005	Providing and fixing MS frames for doors, windows and ventilators with Tee/angle/fabricated-sections, joints mitred and welded with 15 x 3 mm lugs 100 mm long embedded in cement concrete blocks 150 x 100 x 100 mm 1:3:6 with coarse sand or with wooden plugs and screws or rawls plugs and screws/with fixing clips/with bolts and nuts as required including fixing of butt hinges and screws and applying three coats of synthetic enamel paint over a primer coat of zinc chromate on duly prepared surfaces, complete.	kg	230.50	23.16	0.00	253.66	291.71
		Providing and fixing pressed steel door frames, manufactured from commercial mild steel sheet of 1.25 mm thickness, including hinges jamb, lock jamb, bead, and required threshold of mild steel flat of section 30 x 3 mm/8 mm round or square bar welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5 mm thick with mortar guards, lock strike - plate and shock absorbers and applying three coats of synthetic enamel paint over a primer coat of zinc chromate on duly prepared surfaces i/c filling hollows of the frame with CC 1:3:6, complete :						
	10010	Profile A	m	1257.16	87.26	1.60	1346.02	1547.92

09 21 Plaster And Gypsum Board Assemblies								
09 21 13		Plaster Assemblies	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
13		Expansion Control With Chicken Mesh						
	10005	Providing and fixing galvanized chicken wire mesh (24 gauge 12 mm size) to junctions of concrete and masonry work and other locations including cutting to required sizes, side laps of minimum 75 mm and fixing in position with galvanized iron wire nails, complete.	sqm	165.98	247.80	2.89	416.67	479.17

09 22 Supports For Plaster And Gypsum Board								
09 22 26		Suspension Systems	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
14		Aluminium Frame Work						
		Providing and fixing frame work for suspended ceiling with anodised aluminium 15 microns coating/Polyester pre-coated (50 microns), main runner T-sections 35 x 35 x 1.5 mm thick suspended from ceiling with 6 mm dia MS adjustable hangers, fixed to ceiling with MS cleat 25 x 25 x 5 mm and 50 mm long, fixed to RCC surface with expandable fasteners 12.5 x 40 mm, intermediate T-section 23.5 x 19 x 1.5 mm thick fixed to main runner and perimeter angle 35 x 15 x 1.5 mm thick fixed to wall/beam with cadmium plated steel screws with rawl plug @ 450 mm etc., all complete, for panel sizes (cost of hangers with cleat to be paid for separately) :						
	10005	1220 x 610 mm	sqm	674.45	292.31	-	966.76	1111.77
	10010	610 x 610 mm	sqm	735.55	292.31	-	1027.86	1182.04
	10015	Add for providing and making arrangement for fixing light, fixture grills and diffusers in the frame work.	sqm	602.39	292.05	-	894.44	1028.61
15		Ms Frame Work						
		Providing and fixing frame work for suspended ceiling, made from 0.55 mm thick GS sheet section consisting of GS channel main runner suspended from ceiling with 6 mm dia MS adjustable hanger fixed to ceiling with MS angle of 25 x 25 x 5 mm thick and 50 mm long with expandable fasteners 12.5 x 40 mm, intermediate T - sections fixed to main runner, and perimeter channel section fixed to wall with cadmium plated steel screw with rawl plug @ 450 mm centre to centre, complete, for panel size (cost of hangers with cleat to be paid for separately).						
	10005	1220 x 610 mm	sqm	834.56	292.31	-	1126.87	1295.90
	10010	610 x 610 mm	sqm	998.81	292.31	-	1291.12	1484.79
	10015	Add for providing and making arrangement for fixing light fixture grills and diffusers in the frame work.	sqm	998.81	292.05	-	1290.86	1484.49
16		Ceiling Supports, Suspension						
	10005	Providing and fixing level adjusting hangers of 6 mm dia. MS Rods fixed to roof slabs by means of MS angle ceiling cleats 40 x 40 x 5 mm size, 40 mm long and expansion hold fasteners 12.5 mm dia. 40 mm long including applying a primer coat of zinc chromate, complete.	Each	97.63	19.36	-	116.99	134.54

10 14 Signage								
10 14 53		Traffic Signage	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
20		Traffic Signs						
	10005	Providing and fixing Cats Eye (Glow studs), heavy duty integral stem, reflective, aluminium dia cast with elegant finish, of size 100 x 100 mm and 20 mm high, having a stem of 50 mm screwed / nailed with 12 mm dia 90 mm long nail to fix into the road surface or at the nosing of the central verge. The road studs should have reflectors fitted on one side of the studs, complete.	Each	254.17	41.26	-	295.43	339.74

10 28 Toilet, Bath, And Laundry Accessories								
10 28 16		Bath Accessories	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Bath Accessories						
		Providing and fixing stainless steel curtain rods with stainless steel brackets, complete, of size :						
	10005	25 mm outer dia	m	456.27	259.60	-	715.87	823.25
	10010	32 mm outer dia	m	622.88	259.60	-	882.48	1014.85
	10015	Providing and fixing CP brass curtain rod with CP brass brackets 25 mm outer dia, complete.	m	1990.31	259.60	-	2249.91	2587.40
	10020	Providing and fixing CP brass brackets for curtain rods 25 mm outer dia, complete.	Set	887.60	194.57	-	1082.17	1244.50
		Providing and fixing angular/bent grab bars fabricated from 32 mm dia. seamless stainless steel tubes with peened non-slip gripping surface, polished flanges firmly fixed, to be fully safe, with heavy duty anchor fastener having finish/capping similar to the grab bar, complete, including cutting and making good the walls/floors for :						
	10025	Wall-mounted /floor-mounted for European type water closet - 830 mm high	Each	1283.28	389.79	-	1673.07	1924.03
	10030	Bath tub - 1320 mm long	Each	1385.58	389.79	-	1775.37	2041.68
	10035	Wash basin and shower - 610 mm long	Each	1487.89	389.79	-	1877.68	2159.33
	10040	Providing and fixing fully automatic "NO TOUCH" hand driers of stainless steel body suitable to operate on 230 V, single ph 50 Hz, AC power supply including brackets for fixing on wall including cutting and making good the walls, etc., complete.	Each	10748.76	389.79	-	11138.55	12809.33
	10045	Providing and fixing bevelled edge mirrors 5.5 mm thick of float glass, complete with 6 mm thick marine ply board backing, fixed with CP brass screws and washers, complete, of size 450 x 600 mm.	Each	2614.09	453.91	-	3068.00	3528.20
		Providing and fixing float glass mirror 5.5 mm thick with plastic moulded frame and 6 mm thick marine ply board backing, complete, of outer dimensions :						
	10050	Circular shape 450 mm dia	Each	611.15	453.91	-	1065.06	1224.82
	10055	Rectangular shape 453 x 357 mm	Each	525.45	453.91	-	979.36	1126.26
	10060	Oval shape 450 x 350 mm	Each	526.05	453.91	-	979.96	1126.95
	10065	Rectangular shape 1500 x 450 mm	Each	1052.97	584.75	-	1637.72	1883.38
	10070	Providing and fixing rectangular float glass mirror 5.5 mm thick of any size with 6 mm thick marine ply board backing, supported on clips fixed with CP brass screws and washers, complete.	sqm	1148.44	649.00	-	1797.44	2067.06

21 12 Fire-suppression Standpipes								
21 12 13		Fire-suppression Hoses And Nozzles	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
52		Fire Hose And Equipment						
	10005	Providing and fixing stand post fire hydrants Type A, conforming to IS:908, with 63 mm dia. outlet fitted with gunmetal instantaneous type coupling, 80 mm dia. inlet, one number cast iron double flanged sluice valve, CI duck foot bends and flanged riser, painting with one coat of ready mixed red oxide primer and two coats of synthetic enamel paint of fire red colour, finished to an even shade, complete, excluding the cost of brick chamber.	Each	23088.83	865.40	-	23954.23	27547.36
	10010	Providing and fixing gun metal, under ground type fire hydrants, conforming to IS-909, with control valve and 63 mm dia single outlet fitted with instantaneous type coupling, conforming to IS-901 for connection to hose and 80 mm dia inlet and chained cap, complete, excluding the cost of brick chamber.	Each	32625.09	389.79	-	33014.88	37967.11
		Providing and fixing gunmetal, hand wheel operated fire hydrant valves Type A, conforming to IS:5290, with 63 mm dia outlet fitted with instantaneous female coupling, conforming to IS:901, and 80 mm dia inlet, complete, with blank caps and chains with :						
	10015	Single outlet	Each	11526.73	129.80	-	11656.53	13405.01
	10020	Double outlet	Each	22915.69	155.76	-	23071.45	26532.17
	10025	Providing and fixing first aid hose reels, of heavy duty mild steel construction, with CI brackets, wall mounted, swinging type, fitted with 19 mm dia., 36.5 m long high pressure hose, conforming to IS-5132, with 5 mm dia outlet gunmetal nozzle and shut off valve, conforming to IS 884-1967, complete.	Each	17345.66	566.40	-	17912.06	20598.87
	10030	Providing and fixing 63 mm dia, 15 m long reinforced rubber lined hoses, conforming to IS:636, including gunmetal male and female instantaneous type coupling, conforming to IS: 903, machine wound with galvanised steel wire, complete.	Each	10132.81	41.30	-	10174.11	11700.23
	10035	Providing and fixing standard short size gunmetal branch pipes, conforming to IS-903, with 16 mm dia. outlet gunmetal nozzle, suitable to fit with standard instantaneous type 63 mm coupling along with nozzle spanner, complete.	Each	4688.82	41.30	-	4730.12	5439.64
	10040	Providing and fixing standard firemans axes with heavy insulated rubber handle, conforming to IS:926, complete.	Each	985.73	41.30	-	1027.03	1181.08
		Providing and fixing gunmetal fire brigade connections, conforming to IS-905, with 63 mm dia. instantaneous type inlet and 150 mm dia flanged outlet with built in check valves for fire risers complete in all respects :						
	10045	Two-way	Each	12924.57	194.57	-	13119.14	15087.01
	10050	Three-way	Each	18375.30	220.79	-	18596.09	21385.50
	10055	Providing and fixing 25 mm size single acting air valves with SCR inlet, conforming to IS-12992, complete.	Each	1952.80	259.60	-	2212.40	2544.26

21 13 Fire-suppression Sprinkler Systems

22 05 Common Work Results For Plumbing								
22 05 23	General-duty Valves For Plumbing Piping	UNIT	BARE COST				TOTAL INCL OHP	
			Material	Labour	Equipment	TOTAL		
23	Valve, Ball							
	Providing, fixing and testing brass ball valve, SCR lever operated, complete, of size:							
10005	8 mm	Each	252.76	64.90	-	317.66	365.31	
10010	10 mm	Each	252.76	90.86	-	343.62	395.16	
	Providing, fixing and testing brass ball valves with carbon steel lever, complete of size :							
10015	15 mm	Each	348.38	90.86	-	439.24	505.13	
10020	20 mm	Each	947.45	90.86	-	1038.31	1194.06	
10025	25 mm	Each	1507.76	103.84	-	1611.60	1853.34	
10030	32 mm	Each	2064.52	103.84	-	2168.36	2493.61	
10035	40 mm	Each	2247.72	129.80	-	2377.52	2734.15	
10040	50 mm	Each	2842.68	129.80	-	2972.48	3418.35	
	Providing, fixing and testing brass ball valves with aluminium alloy lever of size :							
10045	15 mm	Each	604.20	90.86	-	695.06	799.32	
10050	20 mm	Each	895.23	90.86	-	986.09	1134.00	
10055	25 mm	Each	1099.43	103.84	-	1203.27	1383.76	
10060	32 mm	Each	2125.19	103.84	-	2229.03	2563.38	
10065	40 mm	Each	2979.36	129.80	-	3109.16	3575.53	
10070	50 mm	Each	4747.66	129.80	-	4877.46	5609.08	
24	Valve, Balancing							
	Providing, fixing and testing CI balancing valve, body conforming to IS:210, with companion flanges (IS:6392), complete, of size:							
10005	80 mm	Each	9416.40	164.91	-	9581.31	11018.51	
10010	100 mm	Each	12947.55	192.81	-	13140.36	15111.41	
10015	125 mm	Each	17420.34	240.97	-	17661.31	20310.51	
10020	150 mm	Each	23423.30	304.49	-	23727.79	27286.96	
10025	200 mm	Each	50730.86	405.92	-	51136.78	58807.30	
10030	250 mm	Each	81498.94	507.40	-	82006.34	94307.29	
10035	300 mm	Each	109653.98	658.90	-	110312.88	126859.81	
	Providing, fixing and testing G/Met balancing valve SCR, conforming to IS:778, etc., complete, of size:							
10040	25 mm	Each	2344.19	103.84	-	2448.03	2815.23	
10045	32 mm	Each	2998.38	123.31	-	3121.69	3589.94	
10050	40 mm	Each	3543.54	142.78	-	3686.32	4239.27	
10055	50 mm	Each	5560.63	155.76	-	5716.39	6573.85	
10060	65 mm	Each	8821.68	179.00	-	9000.68	10350.78	
10065	80 mm	Each	11783.38	207.68	-	11991.06	13789.72	
27	Valve, Check							
	Providing, fixing and testing CI check valve with flanges, conforming to IS:9338 etc., complete, of size:							
10005	40 mm	Each	3925.15	64.90	-	3990.05	4588.56	
10010	50 mm	Each	5927.69	70.09	-	5997.78	6897.45	
10015	65 mm	Each	7847.52	77.88	-	7925.40	9114.21	
10020	80 mm	Each	9566.63	84.37	-	9651.00	11098.65	
10025	100 mm	Each	13289.21	192.81	-	13482.02	15504.32	
10030	125 mm	Each	17581.41	240.97	-	17822.38	20495.74	
10035	150 mm	Each	18558.98	304.49	-	18863.47	21692.99	
10040	200 mm	Each	37932.92	405.92	-	38338.84	44089.67	
10045	250 mm	Each	48674.12	507.40	-	49181.52	56558.75	

22 05 Common Work Results For Plumbing								
22 05 23		General-duty Valves For Plumbing Piping	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
		Providing, fixing and testing G/Met vertical check valve, integral seat, flanged female connection, conforming to IS:778, complete, of size:						
	10225	25 mm	Each	1012.88	54.51	-	1067.39	1227.50
	10230	32 mm	Each	1486.80	59.71	-	1546.51	1778.49
	10235	40 mm	Each	1955.14	64.90	-	2020.04	2323.05
	10240	50 mm	Each	2745.94	70.09	-	2816.03	3238.43
	10245	65 mm	Each	4757.76	73.98	-	4831.74	5556.50
	10250	80 mm	Each	7749.95	84.37	-	7834.32	9009.47
	10255	100 mm	Each	14143.19	191.49	-	14334.68	16484.88
31		Valve, Gate						
		Providing, fixing and testing brass gate valves with CI Wheel, conforming to IS:778, screwed ends, complete, of nominal size :						
	10005	25 mm	Each	1019.33	64.90	-	1084.23	1246.86
	10010	32 mm	Each	1208.46	64.90	-	1273.36	1464.36
	10015	40 mm	Each	1861.46	64.90	-	1926.36	2215.31
	10020	50 mm	Each	2551.27	64.90	-	2616.17	3008.60
	10025	65 mm	Each	6328.25	77.88	-	6406.13	7367.05
	10030	80 mm	Each	7871.86	77.88	-	7949.74	9142.20
		Providing, fixing and testing G/Met gate valve, non-rising stem SCR, conforming to IS:778, complete, of size:						
	10035	15 mm	Each	1004.71	25.96	-	1030.67	1185.27
	10040	20 mm	Each	1249.34	32.45	-	1281.79	1474.06
	10045	25 mm	Each	2278.41	36.35	-	2314.76	2661.97
	10050	32 mm	Each	3170.28	41.53	-	3211.81	3693.58
	10055	40 mm	Each	3748.92	45.43	-	3794.35	4363.50
	10060	50 mm	Each	6564.43	50.62	-	6615.05	7607.31
	10065	65 mm	Each	12013.13	54.51	-	12067.64	13877.79
	10070	80 mm	Each	17104.36	64.90	-	17169.26	19744.65
	10075	100 mm	Each	29015.49	64.90	-	29080.39	33442.45
60		Valve, Plastic						
		Providing, fixing and testing PTMT stop cocks, complete, of nominal size :						
	10005	15 mm	Each	185.77	64.90	-	250.67	288.27
	10010	20 mm	Each	232.62	64.90	-	297.52	342.15
22 05 76		Facility Drainage Piping Cleanouts	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Cleanouts						
	10005	Providing and fixing 100 mm dia. flanged clean-out plugs with CI flanged tail pieces, blind flanges conforming to IS-1538 fixed with necessary neoprene washers, galvanised fasteners, complete, (excluding cost of tail piece and its joints).	Each	549.40	162.25	-	711.65	818.40
		Providing and fixing cast brass clean-out plugs with suitable inset keys for opening, and galvanised steel bends including fixing to galvanised steel / sand cast iron/ centrifugally spun pipes with lead joint, of nominal dia :						
	10010	50 mm	Each	1078.98	253.70	-	1332.68	1532.58
	10015	75 mm	Each	1751.15	253.70	-	2004.85	2305.58
	10020	100 mm	Each	2905.81	380.34	-	3286.15	3779.07
	10025	150 mm	Each	6035.01	380.34	-	6415.35	7377.65

23 07		Hvac Insulation						
23 07 13		Duct Insulation	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
11		Duct Insulation						
		Providing and fixing, fiber-glass insulation, bonded by resin conforming to IS:8183, for ducts, etc., with 0.5 mm thick aluminium sheet cladding having 50 mm overlap at joints etc., complete, of following thickness and density:						
	10005	25 mm thick 16kg per cum	sqm	728.56	351.26	-	1079.82	1241.79
	10010	25 mm thick 24 kg per cum	sqm	781.70	351.26	-	1132.96	1302.90
	10015	25 mm thick 32 kg per cum	sqm	834.84	351.26	-	1186.10	1364.02
	10020	50 mm thick 16 kg per cum	sqm	867.68	351.26	-	1218.94	1401.78
	10025	50 mm thick 24 kg per cum	sqm	972.72	351.26	-	1323.98	1522.58
	10030	50 mm thick 32 kg per cum	sqm	1074.06	351.26	-	1425.32	1639.12
		Providing and fixing, rigid polyurethane foam (PUF) slab for thermal insulation, conforming to IS:12436, paper laminated/ unfaced, complete, of following thickness and density:						
	10035	15 mm thick 32 kg per cum	sqm	542.29	268.45	-	810.74	932.35
	10040	20 mm thick 32 kg per cum	sqm	695.80	268.45	-	964.25	1108.89
	10045	25 mm thick 32 kg per cum	sqm	874.79	268.45	-	1143.24	1314.73
	10050	30 mm thick 32 kg per cum	sqm	1028.30	268.45	-	1296.75	1491.26
	10055	40 mm thick 32 kg per cum	sqm	1361.16	268.45	-	1629.61	1874.05
	10060	50 mm thick 32 kg per cum	sqm	1692.91	268.45	-	1961.36	2255.56
		Providing and fixing, polyurethane rigid foam insulation pipe section, conforming to IS:12436 and density 36 kg per m3 with 0.5 mm thick aluminium sheet cladding having 50 mm overlap on joints and supports, complete, of following thickness and nominal bo						
		25 mm thickness :						
	10065	20 mm	m	340.70	41.30	-	382.00	439.30
	10070	25 mm	m	382.19	41.30	-	423.49	487.01
	10075	32 mm	m	423.62	41.30	-	464.92	534.66
	10080	40 mm	m	462.55	41.30	-	503.85	579.43
	10085	50 mm	m	516.99	41.30	-	558.29	558.29
	10090	65 mm	m	574.05	41.30	-	615.35	707.65
	10095	80 mm	m	631.09	61.95	-	693.04	797.00
	10100	100 mm	m	726.98	61.95	-	788.93	907.27
	10105	125 mm	m	861.84	61.95	-	923.79	1062.36
	10110	150 mm	m	972.04	61.95	-	1033.99	1189.09
	10115	200 mm	m	1201.53	61.95	-	1263.48	1453.00
	10120	250 mm	m	1467.41	61.95	-	1529.36	1758.76
	10125	300 mm	m	1666.98	82.60	-	1749.58	2012.02
	10130	350 mm	m	2168.47	82.60	-	2251.07	2588.73
	10135	400 mm	m	2478.63	82.60	-	2561.23	2945.41
		30 mm thickness :						
	10140	20 mm	m	387.82	41.30	-	429.12	493.49
	10145	25 mm	m	454.16	41.30	-	495.46	569.78
	10150	32 mm	m	493.09	41.30	-	534.39	614.55
	10155	40 mm	m	531.97	41.30	-	573.27	659.26
	10160	50 mm	m	604.64	41.30	-	645.94	742.83
	10165	65 mm	m	653.88	41.30	-	695.18	799.46
	10170	80 mm	m	723.93	61.95	-	785.88	903.76
	10175	100 mm	m	841.89	61.95	-	903.84	1039.42
	10180	125 mm	m	979.36	61.95	-	1041.31	1197.51

26 05 Common Work Results For Electrical								
26 05 13		Medium-Voltage Cables	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
20		Cable End Terminations With Compression Glands						
		Providing and making end termination with single compression brass gland and aluminium lugs for PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade, complete, of size :						
	10005	1 core 300 sqmm	Set	307.35	324.50	-	631.85	726.63
	10010	1 core 400 sqmm	Set	519.84	324.50	-	844.34	970.99
	10015	1 core 500 sqmm	Set	570.87	389.79	-	960.66	1104.76
	10020	1 core 630 sqmm	Set	667.34	389.79	-	1057.13	1215.70
	10025	2 core 6 sqmm	Set	61.87	129.80	-	191.67	220.42
	10030	2 core 10 sqmm	Set	62.59	155.76	-	218.35	251.10
	10035	2 core 16 sqmm	Set	86.40	155.76	-	242.16	278.48
	10040	2 core 25 sqmm	Set	145.03	155.76	-	300.79	345.91
	10045	2 core 35 sqmm	Set	146.95	155.76	-	302.71	348.12
	10050	2 core 50 sqmm	Set	152.75	155.76	-	308.51	354.79
	10055	2 core 70 sqmm	Set	178.61	155.76	-	334.37	384.53
	10060	3 core 10 sqmm	Set	86.67	155.76	-	242.43	278.79
	10065	3 core 16 sqmm	Set	145.85	155.76	-	301.61	346.85
	10070	3 core 25 sqmm	Set	149.84	155.76	-	305.60	351.44
	10075	3 core 35 sqmm	Set	152.72	155.76	-	308.48	354.75
	10080	3 core 50 sqmm	Set	161.42	155.76	-	317.18	364.76
	10085	3 core 70 sqmm	Set	268.83	207.68	-	476.51	547.99
	10090	3 core 95 sqmm	Set	271.71	207.68	-	479.39	551.30
	10095	3 core 120 sqmm	Set	466.88	324.50	-	791.38	910.09
	10100	3 core 150 sqmm	Set	484.22	324.50	-	808.72	930.03
	10105	3 core 185 sqmm	Set	545.06	324.50	-	869.56	999.99
	10110	3 core 240 sqmm	Set	790.41	324.50	-	1114.91	1282.15
	10115	3 core 300 sqmm	Set	859.74	324.50	-	1184.24	1361.88
	10120	3 core 400 sqmm	Set	1085.59	428.34	-	1513.93	1741.02
	10125	3½ core 25 sq. mm	Set	153.32	155.76	-	309.08	355.44
	10130	3½ core 35 sqmm	Set	156.20	207.68	-	363.88	418.46
	10135	3½ core 50 sqmm	Set	166.23	207.68	-	373.91	430.00
	10140	3½ core 70 sqmm	Set	274.60	207.68	-	482.28	554.62
	10145	3½ core 95 sqmm	Set	280.38	324.50	-	604.88	695.61
	10150	3½ core 120 sqmm	Set	480.36	324.50	-	804.86	925.59
	10155	3½ core 150 sqmm	Set	538.32	324.50	-	862.82	992.24
	10160	3½ core 185 sqmm	Set	559.50	324.50	-	884.00	1016.60
	10165	3½ core 240 sqmm	Set	810.63	324.50	-	1135.13	1305.40
	10170	3½ core 300 sqmm	Set	1007.61	428.34	-	1435.95	1651.34
	10175	3½ core 400 sqmm	Set	1321.44	428.34	-	1749.78	2012.25
	10180	4 core 10 sq. mm	Set	89.08	155.76	-	244.84	281.57
	10185	4 core 16 sqmm	Set	149.33	155.76	-	305.09	350.85
	10190	4 core 25 sqmm	Set	154.65	207.68	-	362.33	416.68
	10195	4 core 35 sqmm	Set	158.49	207.68	-	366.17	421.10
	10200	4 core 50 sqmm	Set	263.07	207.68	-	470.75	541.36
	10205	4 core 70 sqmm	Set	292.23	324.50	-	616.73	709.24
	10210	4 core 95 sqmm	Set	326.16	324.50	-	650.66	748.26
	10215	4 core 120 sqmm	Set	568.34	324.50	-	892.84	1026.77
22		Cable End Termination Kit, Cast Resin Compound						

26 05 Common Work Results For Electrical								
26 05 13		Medium-Voltage Cables	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
		Providing and making indoor/outdoor cable end termination with heat shrinkage jointing kit, with all accessories including lugs for XLPE aluminium conductor cable of 33 kV (E) grade, complete, of size :						
		Outdoor,						
	10005	2 core 25 sqmm	Each	1603.80	480.78	-	2084.58	2397.27
	10010	2 core 35 sqmm	Each	1605.72	480.78	-	2086.50	2399.48
	10015	2 core 50 sqmm	Each	1611.52	480.78	-	2092.30	2406.15
	10020	2 core 70 sqmm	Each	1789.04	480.78	-	2269.82	2610.29
	10025	3 core 25 sqmm	Each	1608.61	480.78	-	2089.39	2402.80
	10030	3 core 35 sqmm	Each	1611.49	480.78	-	2092.27	2406.11
	10035	3 core 50 sqmm	Each	1788.09	649.00	-	2437.09	2802.65
	10040	3 core 70 sqmm	Each	1802.52	649.00	-	2451.52	2819.25
	10045	3 core 95 sqmm	Each	2057.76	1038.40	-	3096.16	3560.58
	10050	3 core 120 sqmm	Each	2075.10	1038.40	-	3113.50	3580.53
	10055	3 core 150 sqmm	Each	2092.44	1038.40	-	3130.84	3600.47
	10060	3 core 185 sqmm	Each	3114.26	1128.74	-	4243.00	4879.45
	10065	3 core 240 sqmm	Each	3856.00	1298.00	-	5154.00	5927.10
	10070	3 core 300 sqmm	Each	3925.33	1298.00	-	5223.33	6006.83
	10075	3 core 400 sqmm	Each	3384.99	1458.43	-	4843.42	5569.93
	10080	3½ core 25 sqmm	Each	1616.30	480.78	-	2097.08	2411.64
	10085	3½ core 35 sqmm	Each	1782.87	649.00	-	2431.87	2796.65
	10090	3½ core 50 sqmm	Each	1792.90	853.96	-	2646.86	3043.89
	10095	3½ core 70 sqmm	Each	2060.65	853.96	-	2914.61	3351.80
	10100	3½ core 95 sqmm	Each	2066.43	1038.40	-	3104.83	3570.55
	10105	3½ core 120 sqmm	Each	2088.58	1038.40	-	3126.98	3596.03
	10110	3½ core 150 sqmm	Each	3107.52	1128.74	-	4236.26	4871.70
	10115	3½ core 185 sqmm	Each	3128.70	1128.74	-	4257.44	4896.06
	10120	3½ core 240 sqmm	Each	3940.01	1298.00	-	5238.01	6023.71
	10125	3½ core 300 sqmm	Each	4015.12	1458.43	-	5473.55	6294.58
	10130	3½ core 400 sqmm	Each	4825.94	1563.83	-	6389.77	7348.24
	10135	4 core 25 sqmm	Each	2617.22	649.00	-	3266.22	3756.15
	10140	4 core 35 sqmm	Each	2625.27	853.96	-	3479.23	4001.11
	10145	4 core 50 sqmm	Each	2636.87	853.96	-	3490.83	4014.45
	10150	4 core 70 sqmm	Each	2768.85	853.96	-	3622.81	4166.23
	10155	4 core 95 sqmm	Each	2772.69	1038.40	-	3811.09	4382.75
	10160	4 core 120 sqmm	Each	2795.81	1038.40	-	3834.21	4409.34
		Indoor,						
	10165	3 core 70 sqmm	Each	6100.20	649.00	-	6749.20	7761.58
	10170	3 core 95 sqmm	Each	6103.08	649.00	-	6752.08	7764.89
	10175	3 core 120 sqmm	Each	7044.87	1038.40	-	8083.27	9295.76
	10180	3 core 150 sqmm	Each	7062.21	1038.40	-	8100.61	9315.70
	10185	3 core 185 sqmm	Each	7082.43	1038.40	-	8120.83	9338.95
	10190	3 core 240 sqmm	Each	8367.46	1298.00	-	9665.46	11115.28
	10195	3 core 300 sqmm	Each	8436.79	1298.00	-	9734.79	11195.01
	10200	3 core 400 sqmm	Each	10386.31	1458.43	-	11844.74	13621.45
		Outdoor,						
	10205	3 core 70 sqmm	Each	15271.82	649.00	-	15920.82	18308.94
	10210	3 core 95 sqmm	Each	15274.70	649.00	-	15923.70	18312.26
	10215	3 core 120 sqmm	Each	18577.91	1038.40	-	19616.31	22558.76
	10220	3 core 150 sqmm	Each	18595.25	1038.40	-	19633.65	22578.70

26 05 Common Work Results For Electrical								
26 05 13	Medium-Voltage Cables	UNIT	BARE COST				TOTAL INCL OHP	
			Material	Labour	Equipment	TOTAL		
	10225	3 core 185 sqmm	Each	18615.47	1038.40	-	19653.87	22601.95
	10230	3 core 240 sqmm	Each	22773.25	1298.00	-	24071.25	27681.94
	10235	3 core 300 sqmm	Each	22842.58	1298.00	-	24140.58	27761.67
	10240	3 core 400 sqmm	Each	26056.17	1458.43	-	27514.60	31641.79
24		Cable End Termination Kit, Cold Shrinkage						
		Providing and making indoor/outdoor cold shrink termination including aluminium lugs and all other jointing materials for XLPE aluminium conductor cable of 11 kV (E) grade, complete, of size:						
		Indoor,						
	10005	3 core 70 sqmm	Each	14273.42	519.20	-	14792.62	17011.51
	10010	3 core 95 sqmm	Each	14276.30	519.20	-	14795.50	17014.83
	10015	3 core 120 sqmm	Each	15475.38	853.96	-	16329.34	18778.74
	10020	3 core 150 sqmm	Each	15492.72	853.96	-	16346.68	18798.68
	10025	3 core 185 sqmm	Each	15512.94	853.96	-	16366.90	18821.94
	10030	3 core 240 sqmm	Each	19439.35	1038.40	-	20477.75	23549.41
	10035	3 core 300 sqmm	Each	19508.68	1038.40	-	20547.08	23629.14
	10040	3 core 400 sqmm	Each	19612.66	1298.00	-	20910.66	24047.26
		Outdoor,						
	10045	3 core 70 sqmm	Each	24407.85	519.20	-	24927.05	28666.11
	10050	3 core 95 sqmm	Each	24410.73	519.20	-	24929.93	28669.42
	10055	3 core 120 sqmm	Each	27503.43	853.96	-	28357.39	32611.00
	10060	3 core 150 sqmm	Each	27520.77	853.96	-	28374.73	32630.94
	10065	3 core 185 sqmm	Each	27540.99	853.96	-	28394.95	32654.19
	10070	3 core 240 sqmm	Each	30518.11	1038.40	-	31556.51	36289.99
	10075	3 core 300 sqmm	Each	30587.44	1038.40	-	31625.84	36369.72
	10080	3 core 400 sqmm	Each	30691.42	1298.00	-	31989.42	36787.83
		Providing and making indoor/outdoor cold shrink termination including aluminium lugs and all other jointing materials for XLPE aluminium conductor cable of 33 kV (E) grade, complete, of size:						
		Indoor,						
	10085	3 core 50 sqmm	Each	37785.62	649.00	-	38434.62	44199.81
	10090	3 core 70 sqmm	Each	37800.05	853.96	-	38654.01	44452.11
	10095	3 core 95 sqmm	Each	37802.93	853.96	-	38656.89	44455.42
	10100	3 core 120 sqmm	Each	37820.27	1038.40	-	38858.67	44687.47
	10105	3 core 150 sqmm	Each	42423.40	1038.40	-	43461.80	49981.07
	10110	3 core 185 sqmm	Each	42443.62	1298.00	-	43741.62	50302.86
	10115	3 core 240 sqmm	Each	42512.95	1298.00	-	43810.95	50382.59
	10120	3 core 300 sqmm	Each	46443.54	1458.43	-	47901.97	55087.27
		Outdoor,						
	10125	3 core 50 sqmm	Each	49973.32	649.00	-	50622.32	58215.67
	10130	3 core 70 sqmm	Each	49987.75	853.96	-	50841.71	58467.97
	10135	3 core 95 sqmm	Each	50112.34	853.96	-	50966.30	58611.25
	10140	3 core 120 sqmm	Each	50129.68	1038.40	-	51168.08	58843.29
	10145	3 core 150 sqmm	Each	50147.02	1038.40	-	51185.42	58863.23
	10150	3 core 185 sqmm	Each	50167.24	1298.00	-	51465.24	59185.03
	10155	3 core 240 sqmm	Each	55362.65	1298.00	-	56660.65	65159.75
	10160	3 core 300 sqmm	Each	55431.98	1458.43	-	56890.41	65423.97

27 15 Communications Horizontal Cabling								
27 15 10		Special Communications Cabling	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
25		Cable, Telephone						
		Providing and drawing PVC insulated, PVC sheathed, tinned copper conductor telephone cable in the existing surface/recessed, PVC/steel conduit/PVC casing and capping, of size :						
		0.51 mm dia,						
	10005	1 pair	m	9.46	49.56	-	59.02	67.87
	10010	2 pair	m	18.02	49.56	-	67.58	77.72
	10015	3 pair	m	26.00	49.56	-	75.56	86.89
	10020	5 pair	m	39.60	49.56	-	89.16	102.53
	10025	10 pair	m	76.34	49.56	-	125.90	144.79
	10030	20 pair	m	147.10	49.56	-	196.66	226.16
	10035	50 pair	m	385.52	55.76	-	441.28	507.47
		0.61 mm dia,						
	10040	1 pair	m	12.35	49.56	-	61.91	71.20
	10045	2 pair	m	23.77	49.56	-	73.33	84.33
	10050	3 pair	m	34.86	49.56	-	84.42	97.08
	10055	5 pair	m	53.80	49.56	-	103.36	118.86
	10060	10 pair	m	103.98	49.56	-	153.54	176.57
	10065	20 pair	m	201.89	49.56	-	251.45	289.17
	10070	50 pair	m	547.80	55.76	-	603.56	694.09
		0.71 mm dia,						
	10075	1 pair	m	14.33	49.56	-	63.89	73.47
	10080	2 pair	m	37.50	49.56	-	87.06	100.12
	10085	3 pair	m	57.04	49.56	-	106.60	122.59
	10090	5 pair	m	93.82	49.56	-	143.38	164.89
	10095	10 pair	m	187.27	49.56	-	236.83	272.35
	10100	20 pair	m	371.99	49.56	-	421.55	484.78
	10105	50 pair	m	809.02	55.76	-	864.78	994.50

28 31 Fire Detection And Alarm								
28 31 23		Fire Detection And Alarm Annunciation Panels And Fire Stations	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Fire Detection And Fire Alarm System						
		Providing, installing, testing and commissioning of standard fire detection and alarm control panel in 16 SWG sheet steel enclosure duly painted, consisting of power supply, automatic control battery charger, control and zone cards, duplex talk back facility etc (but without PA system) for operation on 24 V, DC, complete with 2 numbers 12 V Lead Acid storage batteries of suitable capacity, for :						
	10005	2 zones	Each	18404.34	2020.14	-	20424.48	23488.15
	10010	4 zones	Each	22230.02	2080.41	-	24310.43	27956.99
	10015	6 zones	Each	28248.61	2144.46	-	30393.07	34952.03
	10020	8 zones	Each	31883.60	2266.50	-	34150.10	39272.62
	10025	10 zones	Each	35935.72	2323.13	-	38258.85	43997.68
	10030	12 zones	Each	39749.48	2382.72	-	42132.20	48452.03
		Providing and fixing heat detector, conforming to IS:2175, including making connections, of type :						
	10035	Rate of rise (ROR)	Each	2147.62	74.34	-	2221.96	2555.25
	10040	Fixed temperature	Each	1885.42	74.34	-	1959.76	2253.72
	10045	Rate of rise - cum - fixed temperature	Each	2064.19	74.34	-	2138.53	2459.31
		Providing and fixing smoke detector, conforming to IS:11360, including making connections, of type :						
	10050	Ionisation	Each	2385.98	74.34	-	2460.32	2829.37
	10055	Photo-electric/optical	Each	2257.81	148.68	-	2406.49	2767.46
	10060	Providing and fixing spot (response) indicator including making connection.	Each	177.57	173.46	-	351.03	403.68
		Providing and fixing sounder including making connections, of intensity :						
	10065	Low	Each	1060.05	61.95	-	1122.00	1290.30
	10070	High	Each	1716.73	61.95	-	1778.68	2045.48
	10075	Providing and fixing manual call box, complete with cover, switch including making connections.	Each	1456.93	173.46	-	1630.39	1874.95
		Providing, installing, testing and commissioning addressable fire detection and alarm control panel in 16 SWG sheet steel enclosures, duly painted, consisting of power supply, automatic control battery charger, loop cards, fire / fault event recorder, duplex talk back facility etc. (but without PA system), suitable for operation on 24V, DC, complete with 2 numbers 12 V Lead Acid storage batteries of suitable capacity, for :						
	10080	2 loop	Each	286094.54	2323.13	-	288417.67	331680.32
	10085	4 loop	Each	425654.32	2629.91	-	428284.23	492526.86
	10090	6 loop	Each	613482.00	2934.52	-	616416.52	708879.00
	10095	8 loop	Each	754471.94	3279.67	-	757751.61	871414.35
	10100	10 loop	Each	940988.64	3574.01	-	944562.65	1086247.05
	10105	12 loop	Each	1128339.60	3871.87	-	1132211.47	1302043.19
		Providing and fixing, addressable heat detector, conforming to IS:2175, including making connections, of type :						
	10110	Rate of rise (ROR)	Each	5007.94	74.34	-	5082.28	5844.62
	10115	Fixed temperature	Each	5173.58	74.34	-	5247.92	6035.11

31 11 Clearing And Grubbing								
31 11 10		Clearing And Grubbing Land	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Clear And Grub						
	10005	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 300 mm (measured at a height of 1.0 m above GL) and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared, complete.	100 sqm	-	786.68	-	786.68	904.68
		Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above GL.) :						
	10010	over 300 mm and upto 600 mm	Each	-	236.00	-	236.00	271.40
	10015	over 600 mm and upto 1200 mm	Each	-	1072.71	-	1072.71	1233.62
	10020	over 1200 mm and upto 2400 mm	Each	-	4720.00	-	4720.00	5428.00
	10025	over 2400 mm	Each	-	9440.00	-	9440.00	10856.00
11		Clearing						
	10005	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared, complete.	100 sqm	-	400.02	-	400.02	460.02

31 14 Earth Stripping And Stockpiling								
31 14 13		Soil Stripping And Stockpiling	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
13		Soil Stripping						
	10005	Surface dressing of the ground including removing vegetation and inequalities not exceeding 150 mm deep, in all types of soil and disposal of rubbish upto a lead of 50 m, complete.	100 sqm	-	1522.58	-	1522.58	1750.97

31 22 Grading								
31 22 16		Fine Grading	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
11		Topsoil						
	10005	Earth work in surface excavation not exceeding 300 mm in depth but exceeding 1.5 m in width as well as 10 sqm on plan, in all types of soil including disposal of excavated earth up to 50 m and lift up to 1.5 m, disposed soil to be leveled and neatly dressed, complete.	100 sqm	-	5900.00	-	5900.00	6785.00

31 23 Excavation And Fill								
31 23 16		Excavation	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
12		Excavating, Trench						
		Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated earth as directed, within a lead of 50 m, complete :						
	10005	All types of soil	cum	-	427.01	-	427.01	491.06

31 23 Excavation And Fill								
31 23 16		Excavation	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
	10010	Ordinary and disintegrated rock	cum	42.53	664.81	-	707.34	813.44
	10015	Hard rock (requiring blasting)	cum	109.46	858.19	-	967.65	1112.80
	10020	Hard rock (blasting prohibited)	cum	-	1384.09	-	1384.09	1591.70
14		Excavating, Utility Trench						
		Earth work in excavation, in trenches, in all types of soil, for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated earth and then returning the soil as required, in layers not exceeding 200 mm in depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil as directed, within a lead of 50 m complete, of pipes, cables of sizes :						
	10005	upto 80 mm dia. (minimum width of trench 450 mm)	m	-	266.79	-	266.79	306.81
	10010	over 80 mm dia. and upto 300 mm dia. (minimum width of trench 600 mm)	m	-	435.51	-	435.51	500.84
	10015	over 300 mm dia. (minimum width of trench 850 mm)	m	-	680.09	-	680.09	782.10
		Earth work in excavation in trenches, for pipes, cables, etc. including excavation for sockets, depth up to 1.5 m including getting out the excavated materials, returning the soil as required in layers not exceeding 200 mm in depth including consolidating each deposited layer by ramming, watering etc., stacking serviceable material for measurement and disposal of unserviceable material, within a lead of 50 m complete, of pipes, cables of sizes,						
		Ordinary and disintegrated rock :						
	10020	upto 80 mm dia. (minimum width of trench 450 mm)	m	20.10	382.90	-	403.00	463.45
	10025	over 80 mm dia. and upto 300 mm dia. (minimum width of trench 900 mm)	m	49.76	947.96	-	997.72	1147.38
	10030	over 300 mm dia. (minimum width of trench 900 mm)	m	57.27	1090.33	-	1147.60	1319.74
		Hard rock (blasting prohibited) :						
	10035	upto 80 mm dia. (minimum width of trench 450 mm)	m	-	726.11	-	726.11	835.03
	10040	over 80 mm dia. and upto 300 mm dia. (minimum width of trench 900 mm)	m	-	1796.92	-	1796.92	2066.46
	10045	over 300 mm dia. (minimum width of trench 900 mm)	m	-	2067.71	-	2067.71	2377.87
		Hard rock (requiring blasting) :						
	10050	upto 80 mm dia. (minimum width of trench 450 mm)	m	51.71	474.71	-	526.42	605.38
	10055	over 80 mm dia. and upto 300 mm dia. (minimum width of trench 900 mm)	m	128.06	1174.68	-	1302.74	1498.15
	10060	over 300 mm dia. (minimum width of trench 900 mm)	m	147.39	1352.30	-	1499.69	1724.64
		Add for excavating trenches for pipes, cable etc. in ordinary/hard rock :						
	10065	For depth exceeding 1.5 m, but not exceeding 3.0 m (Rate is over corresponding basic item for depth upto 1.5 m)	m	101.81	1219.06	-	1320.87	1519.00
	10070	For depth exceeding 3.0 m, but not exceeding 4.5 m (Rate is over corresponding basic item for depth upto 1.5 m)	m	222.94	3049.81	-	3272.75	3763.66
		Excavating holes up to 0.5 cum including getting out the excavated material, then returning the						

32 11 Base Courses								
32 11 23		Aggregate Base Courses	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Aggregate Base Courses						
		Providing and laying water bound macadam with stone aggregate, stone screening and blinding material including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 t capacity etc., complete, of courses :						
	10005	Sub-base with stone aggregate 90 to 45 mm including stone screening 13.2 mm size	cum	1998.37	467.79	186.44	2652.60	3050.49
	10010	Base course with 63 to 45 mm size including stone screening 13.2 mm size	cum	2016.54	390.58	155.76	2562.88	2947.31
	10015	Base course with 53 to 22.4 mm size including stone screening 11.2 mm size	cum	1960.77	390.58	155.76	2507.11	2883.18
		Laying water bound macadam with stone aggregate, stone screening and blinding material including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 t capacity etc. complete (payment for stone aggregate, screenings, kankar, moorum and red bajri etc. to be made separately) of courses:						
	10020	Sub-base with stone aggregate 90 to 45 mm including stone screening 13.2 mm size.	cum	35.54	467.79	186.44	689.77	793.24
	10025	Base course with 63 to 45 mm size including stone screening 13.2 mm size.	cum	48.55	390.58	155.76	594.89	684.12
	10030	Base course with 53 to 22.4 mm size including stone screening 11.2 mm size.	cum	48.55	390.58	155.76	594.89	684.12
	10035	Scarifying metalled (water-bound) road surface including disposal of rubbish, lead upto 50 m and consolidation of the aggregate received from scarifying with power road roller of 8 to 10 t capacity, complete.	100 sqm	19.75	1210.26	605.10	1835.11	2110.38
	10040	Providing and edging with bricks of class 75 in full brick width and half brick depth including excavation, refilling and disposal of surplus earth, lead up to 50 m.	m	68.88	49.61	-	118.49	136.26
	10045	Providing and edging 70 mm wide, 114 mm deep to plinth protection with bricks of class 75 including excavation, re-filling and disposal of surplus earth upto lead of 50 m and grouting with cement mortar 1:4 with fine sand, complete.	m	33.22	14.26	0.80	48.28	55.52
11		Subgrade						
	10005	Preparation of subgrade by excavating or filling with available earth to an average of 225 mm depth, dressing to camber, watering and consolidating with road roller of 8-10 t capacity including making good the undulations etc. and disposal of surplus earth / bringing earth from borrow pits within a lead of 50 m, complete.	100 sqm	79.81	9532.72	252.99	9865.52	11345.35
	10010	Consolidation of sub-grade with road roller of 8 to 10t capacity including making good the undulations, etc. with earth or quarry spoils, etc. and rerolling the sub-grade, complete.	100 sqm	79.81	25.49	254.88	360.18	414.21
	10015	Add for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (Proctor density)	100 cm	118.48	888.22	381.85	1388.55	1596.83
32 11 26		Asphaltic Base Courses	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	

32 11		Base Courses		BARE COST				TOTAL INCL OHP
32 11 26	Asphaltic Base Courses	UNIT	Material	Labour	Equipment	TOTAL		
15	Paving, Bitumen And Stone Grit							
10005	Providing surface dressing on new surface with paving bitumen of grade A-90 / S-90, using 2.25 kg. of bitumen per sqm with 1.65 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface including consolidation with road roller of 6 to 8 t capacity etc., complete.	sqm	123.83	33.53	14.27	171.63	197.37	
10010	Providing surface dressing on new surface in two coats with bitumen of grade A-90/S-90, using 1.8 kg. of bitumen per sqm with 1.5 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface for first coat and 1.1 kg. of bitumen per sqm. with 1.00 cum of stone chippings 11.2 mm nominal size per 100 sqm. or road surface for second coat, including consolidation of each coat separately with road roller of 6 to 8 t capacity etc., complete.	sqm	162.49	48.38	19.89	230.76	265.37	
	Providing surface dressing one coat on new surface with bitumen of specified grade at a rate of 1.95 kg/ sqm.of surface area with 1.5 cum. of stone chippings 13.2 mm nominal size per 100 sqm. of road surface including consolidation with road roller of 6 to 8 t capacity etc., complete :							
10015	Using cut back RC 3 (rapid curing) bitumen, conforming to IS:217	sqm	84.82	30.79	13.17	128.78	148.10	

32 12		Flexible Paving		BARE COST				TOTAL INCL OHP
32 12 16	Asphalt Paving	UNIT	Material	Labour	Equipment	TOTAL		
15	Asphaltic Concrete Pavement							
	Providing and applying tack coat, using hot, straight run bitumen of grade 80/100 including heating the bitumen, spraying the same with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface, complete, on surfaces :							
10005	W.B.M, @ 0.75 kg/sqm	sqm	30.13	10.31	0.86	41.30	47.50	
10010	Bituminous surface @ 0.50 kg/sqm	sqm	21.45	10.31	0.86	32.62	37.51	
	Providing and laying premix bituminous macadam base course with stone aggregate of 20 mm and down gauge and straight run bitumen of grade 80/100 @ 4% by weight of total mix including hot mixing of stone aggregate and bitumen in hot mix plant, transporting mixed material and laying mixed material with paver finisher to the required level and grade, rolling with road roller of 8 to 10 t capacity to achieve the specified compaction and density, complete, of compacted thickness :							
10015	40 mm	cum	6792.18	117.08	1209.26	8118.52	9336.30	
10020	50 mm	cum	6792.18	117.08	1209.26	8118.52	9336.30	
	Providing 20 mm thick premix carpet with 1.8 cum and 0.90 cum of stone chippings of 13.2 mm size and 11.2 mm size respectively per 100 sqm. and 52 kg. and 56 kg. of hot bitumen per cum. of stone chippings of 13.2 mm and 11.2 mm size respectively including a tack coat with hot straight run bitumen and consolidation with road roller of 6 to 8 t capacity etc., complete, (cost of tack coat not included), of paving asphalt							

33 11 Groundwater Sources								
33 11 13		Potable Water Supply Wells	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
50		Water Supply Chamber, Brick Masonry						
		Constructing brick masonry chambers with class 75 bricks in cement mortar 1:5 with fine sand, RCC top slab 1:2:4 of avg. thickness 150 mm, including reinforcement, excavation, refilling, 100 mm thick foundation concrete 1:5:10 with coarse sand, 12 mm thick inside plastering with cement mortar 1:3 with coarse sand, finished with a floating coat of neat cement, and 15 mm thick outside plastering in cement mortar 1:4 with fine sand, complete with one brick thick wall, of size :						
	10005	600 x 600 x 750 mm deep inside, with CI surface box 100 mm top dia., 160 mm bottom dia. and 180 mm deep inside, with chained lid.	Each	5164.72	2788.43	109.53	8062.68	9272.08
	10010	900 x 900 x 1000 mm deep inside, with CI surface box 100 mm. top dia., 160 mm bottom dia. and 180 mm deep inside, with chained lid.	Each	8334.65	4459.17	175.32	12969.14	14914.51
	10015	1200 x 1200 x 1000 mm deep inside, with CI surface box 100 mm. top dia., 160 mm bottom dia. and 180 mm deep inside, with chained lid.	Each	10496.73	6714.69	213.44	17424.86	20038.59
	10020	600 x 600 x 750 mm deep inside, with CI surface box 350 x 350 mm and 165 mm deep inside, with chained lid, for fire hydrant.	Each	5576.88	2761.01	108.32	8446.21	9713.14
	10025	600 x 450 x 500 mm, deep inside with CI double flap surface box 400 x 200 x 200 mm. inside, with locking arrangement, for water meter.	Each	4912.86	2088.19	87.06	7088.11	8151.33
60		Piping, Water Distribution Systems						
		Providing, laying, jointing and testing double flanged ductile iron pipes having screwed flanges, conforming to IS:8329, including compressed neoprene washers, galvanised steel fasteners, complete, excluding trenching and back filling, of nominal dia.:						
	10005	80 mm	m	2680.49	44.25	-	2724.74	3133.45
	10010	100 mm	m	4461.20	77.44	-	4538.64	5219.44
	10015	150 mm	m	4476.64	77.44	-	4554.08	5237.19
	10020	200 mm	m	6625.58	88.50	-	6714.08	7721.19
	10025	250 mm	m	7837.81	121.69	-	7959.50	9153.43
	10030	300 mm	m	10220.09	138.36	-	10358.45	11912.22
	10035	350 mm	m	12709.23	177.00	-	12886.23	14819.16
	10040	400 mm	m	16693.80	188.07	-	16881.87	19414.15
	10045	450 mm	m	20282.51	237.97	-	20520.48	23598.55
	10050	600 mm	m	33431.66	354.00	-	33785.66	38853.51
		Providing, laying, jointing and testing S&S ductile iron pipes, conforming to IS:8329, with pre-moulded rubber (IS:5382 and dimensions as per IS:12820) joints complete, excluding trenching and back filling, of nominal dia.:						
	10055	80 mm	m	1756.30	44.25	-	1800.55	2070.63
	10060	100 mm	m	2430.07	49.70	-	2479.77	2851.74
	10065	150 mm	m	3538.58	77.44	-	3616.02	4158.42
	10070	200 mm	m	4501.22	88.50	-	4589.72	5278.18
	10075	250 mm	m	5920.99	121.69	-	6042.68	6949.08
	10080	300 mm	m	7554.40	138.36	-	7692.76	8846.67

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