

The Scientific Costing Guide

BuildCOST

Building Construction Cost Data



Item of Work Cost Database

2023

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Unit Price Section - Table of Contents

Div. No.	Title	Page	Div. No.	Title	Page
01	GENERAL REQUIREMENTS	1	04	MASONRY	27
01 45	Quality Control	3	04 43 13	Stone Masonry Veneer	39
01 45 23	Testing And Inspecting Services	3	04 43 16	Stone Fabrications	41
02	EXISTING CONDITIONS	5	05	METALS	43
02 32	Geotechnical Investigations	7	05 05	Common Work Results For Metals	45
02 32 19	Exploratory Excavations	7	05 05 05	Selective Demolition for Metals	45
02 41	Demolition	7	05 05 21	Fastening Methods For Metal	45
02 41 13	Selective Site Demolition	7	05 05 23	Metal Fastenings	45
03	CONCRETE	11	05 12	Structural Steel Framing	45
03 05	Common Work Results For Concrete	13	05 12 23	Structural Steel For Buildings	45
03 05 05	Selective Demolition for Concrete	13	05 51	Metal Stairs	46
03 05 13	Basic Concrete Materials	13	05 51 16	Metal Floor Plate Stairs	46
03 11	Concrete Forming	13	05 55	Metal Stair Treads And Nosings	46
03 11 13	Structural Cast-in-place Concrete Forming	13	05 55 13	Metal Stair Treads	46
03 15	Concrete Accessories	16	05 73	Decorative Metal Railings	47
03 15 05	Concrete Forming Accessories	16	05 73 23	Ornamental Railings	47
03 15 13	Waterstops	17	06	WOOD, PLASTICS, AND COMPOSITES	49
03 15 19	Cast-In Concrete Anchors	17	06 05	Common Work Results For Wood, Plastics, And Composites	51
03 21	Reinforcement Bars	17	06 05 05	Selective Demolition for Wood, Plastics, and Composites	51
03 21 10	Uncoated Reinforcing Steel	17	06 05 73	Wood Treatment	51
03 22	Fabric and Grid Reinforcing	17	06 11	Wood Framing	51
03 22 05	Uncoated Welded Wire Fabric	17	06 11 10	Framing With Dimensional, Engineered Or Composite Lumber	51
03 31	Structural Concrete	18	06 17	Shop-fabricated Structural Wood	52
03 31 05	Normal Weight Structural Concrete	18	06 17 53	Shop-fabricated Wood Trusses	52
03 31 13	Heavyweight Structural Concrete	19	06 22	Millwork	52
03 35	Concrete Finishing	22	06 22 13	Standard Pattern Wood Trim	52
03 35 13	High-tolerance Concrete Floor Finishing	22	06 26	Board Paneling	53
03 35 16	Heavy-duty Concrete Floor Finishing	22	06 26 13	Profile Board Paneling	53
03 35 19	Colored Concrete Finishing	22	06 43	Wood Stairs And Railings	53
03 35 29	Tooled Concrete Finishing	22	06 43 13	Wood Stairs	53
03 41	Precast Structural Concrete	23	06 43 16	Wood Railings	53
03 41 05	Precast Concrete Members	23	06 48	Wood Frames	54
03 41 16	Precast Concrete Slabs	24	06 48 16	Interior Wood Door Frames	54
03 48	Precast Concrete Specialties	24	07	THERMAL AND MOISTURE PROTECTION	55
03 48 43	Precast Concrete Trim	24	07 11	Dampproofing	57
03 52	Lightweight Concrete Roof Insulation	25	07 11 17	Damp-proof Course	57
03 52 16	Lightweight Insulating Concrete	25	07 13	Sheet Waterproofing	57
04	MASONRY	27	07 13 13	Bituminous Sheet Waterproofing	57
04 05	Common Work Results For Masonry	29	07 16	Cementitious And Reactive Waterproofing	58
04 05 05	Selective Demolition for Masonry	29	07 16 16	Crystalline Waterproofing	58
04 05 19	Masonry Anchorage And Reinforcing	29	07 19	Water Repellents	62
04 21	Clay Unit Masonry	29	07 19 19	Silicone Water Repellents	62
04 21 13	Brick Masonry	29	07 21	Thermal Insulation	63
04 21 19	Clay Tile Masonry	33	07 21 13	Board Insulation	63
04 22	Concrete Unit Masonry	34	07 21 23	Loose-fill Insulation	63
04 22 10	Concrete Masonry Units	34	07 21 27	Reflective Insulation	64
04 22 26	Autoclaved Aerated Concrete Unit Masonry	36	07 26	Vapor Retarders	64
04 23	Glass Unit Masonry	36	07 26 10	Above-Grade Vapor Retarders	64
04 23 13	Vertical Glass Unit Masonry	36	07 32	Roof Tiles	65

Unit Price Section - Table of Contents

Div. No.	Title	Page	Div. No.	Title	Page
04 42	Exterior Stone Cladding	36	07 32 13	Clay Roof Tiles	65
04 42 13	Masonry-supported Stone Cladding	36	07 41	Roof Panels	65
04 43	Stone Masonry	37	07 41 13	Metal Roof Panels	65
04 43 10	Masonry With Natural And Processed Stone	37	07 41 34	Asbestos Roof Panels	68
07	THERMAL AND MOISTURE PROTECTION	55	09	FINISHES	87
07 42	Wall Panels	68	09 30	Tiling	97
07 42 23	Wood Wall Panels	68	09 30 23	Glass Mosaic Tiling	97
07 71	Roof Specialties	69	09 30 36	Concrete Tiling	97
07 71 23	Manufactured Gutters And Downspouts	69	09 51	Acoustical Ceilings	98
07 95	Expansion Control	69	09 51 23	Acoustical Tile Ceilings	98
07 95 13	Expansion Joint Cover Assemblies	69	09 63	Masonry Flooring	99
08	OPENINGS	69	09 63 13	Brick Flooring	99
08 11	Metal Doors And Frames	73	09 63 40	Stone Flooring	99
08 11 13	Hollow Metal Doors And Frames	73	09 64	Wood Flooring	107
08 11 16	Aluminum Doors And Frames	73	09 64 16	Wood Block Flooring	107
08 11 21	Steel Doors and Frames	73	09 64 29	Wood Strip And Plank Flooring	107
08 12	Metal Frames	74	09 65	Resilient Flooring	107
08 12 21	Steel Frames	74	09 65 16	Resilient Sheet Flooring	107
08 14	Wood Doors	74	09 66	Terrazzo Flooring	108
08 14 16	Flush Wood Doors	74	09 66 13	Portland Cement Terrazzo Flooring	108
08 14 33	Stile And Rail Wood Doors	75	09 91	Painting	110
08 14 66	Wood Screen Doors	78	09 91 13	Exterior Painting	110
08 33	Coiling Doors And Grilles	78	09 91 23	Interior Painting	111
08 33 23	Overhead Coiling Doors	78	09 93	Staining And Transparent Finishing	112
08 33 33	Side Coiling Doors	79	09 93 13	Exterior Staining And Finishing	112
08 41	Entrances And Storefronts	79	09 93 23	Interior Staining And Finishing	112
08 41 23	Steel-framed Entrances And Storefronts	79	09 94	Decorative Finishing	113
08 44	Curtain Wall And Glazed Assemblies	80	09 94 13	Textured Finishing	113
08 44 13	Glazed Aluminum Curtain Walls	80	09 96	High-performance Coatings	113
08 71	Door Hardware	81	09 96 35	Chemical-resistant Coatings	113
08 71 20	Hardware	81	09 96 43	Fire-retardant Coatings	113
08 75	Window Hardware	85	09 96 56	Epoxy Coatings	113
08 75 10	Windows Hardware	85	09 97	Special Coatings	113
08 81	Glass Glazing	86	09 97 13	Steel Coatings	113
08 81 10	Float Glass	86	09 97 26	Cementitious Coatings	114
08 81 65	Wire Glass	86	10	SPECIALTIES	115
08 83	Mirrors	86	10 28	Toilet, Bath, And Laundry Accessories	117
08 83 13	Mirrored Glass Glazing	86	10 28 13	Toilet Accessories	117
08 88	Special Function Glazing	86	10 28 16	Bath Accessories	118
08 88 53	Security Glazing	86	10 44	Fire Protection Specialties	119
09	FINISHES	87	10 44 13	Fire Protection Cabinets	119
09 05	Common Work Results For Finishes	89	10 44 16	Fire Extinguishers	120
09 05 05	Selective Demolition for Finishes	89	10 44 43	Fire Extinguisher Accessories	120
09 21	Plaster And Gypsum Board Assembly	89	11	Equipment	121
09 21 13	Plaster Assemblies	89	11 30	Residential Equipment	123
09 22	Support For Plaster And Gypsum Board	90	11 30 34	Residential Ceiling Fans	123
09 22 26	Suspension Systems	90	12	Furnishings	125
09 23	Gypsum Plastering	91	12 36	Countertops	127
09 23 20	Gypsum Plaster	91	12 36 40	Stone Countertops	127
09 24	Cement Plastering	91	13	Special Construction	129
09 24 20	Portland Cement Plaster	91	13 48	Sound, Vibration, And Seismic Control	131
09 24 26	Pointing On Walls And Floors	94	13 48 53	Manufactured Seismic Control Components	131

Unit Price Section - Table of Contents

Div. No.	Title	Page		Div. No.	Title	Page
09 29	Gypsum Board	95		21	Fire Suppression	133
09 29 10	Gypsum Board Panels	95		21 05	Common Work Results For Fire Suppression	135
09 30	Tiling	95		21 05 19	Meters and Gages for Fire-Suppression Systems	135
09 30 10	Precast Pre-polished Tiling	95		21 05 23	General-duty Valves For Water-based Fire-suppression Piping	135
09 30 13	Ceramic Tiling	96		21 11	Facility Fire-suppression Water-service Piping	135
21	Fire Suppression	133	X	23	Heating, Ventilating, and Air Conditioning (HVAC)	179
21 11	Facility Fire-suppression Water-service Piping	135		23 21	Hydronic Piping And Pumps	187
21 11 16	Facility Fire Hydrants	135		23 21 23	Hydronic Pumps	187
21 11 19	Fire-department Connections	136		23 31	Hvac Ducts And Casings	192
21 12	Fire-suppression Standpipes	136		23 31 13	Metal Ducts	192
21 12 13	Fire-suppression Hoses And Nozzles	136		23 33	Air Duct Accessories	192
21 12 16	Fire-suppression Hose Reels	136		23 33 13	Dampers	192
21 12 23	Fire-suppression Hose Valves	136		23 34	Hvac Fans	192
21 13	Fire-suppression Sprinkler Systems	136		23 34 13	Axial Hvac Fans	192
21 13 13	Wet-pipe Sprinkler Systems	136		23 34 14	Blower Hvac Fans	193
21 13 19	Precision Sprinkler Systems	137		23 34 23	Hvac Power Ventilators	195
22	Plumbing	139		23 37	Air Outlets And Inlets	195
22 05	Common Work Results For Plumbing	141		23 37 13	Diffusers, Registers, And Grilles	195
22 05 05	Selective Demolition for Plumbing	141		23 37 15	Louvers	195
22 05 19	Meters And Gages For Plumbing Piping	141		23 41	Particulate Air Filtration	195
22 05 23	General-duty Valves For Plumbing Piping	141		23 41 13	Panel Air Filters	195
22 05 29	Hangers And Supports For Plumbing Piping And Equipment	146		23 52	Heating Boilers	196
22 05 76	Facility Drainage Piping Cleanouts	146		23 52 13	Electric Boilers	196
22 11	Facility Water Distribution	147		23 52 16	Condensing Boilers	197
22 11 13	Facility Water Distribution Piping	147		23 64	Packaged Water Chillers	197
22 11 19	Domestic Water Piping Specialties	152		23 64 13	Absorption Water Chillers	197
22 11 23	Domestic Water Pumps	152		23 64 19	Reciprocating Water Chillers	199
22 12	Facility Potable-water Storage Tanks	155		23 64 23	Scroll Water Chillers	199
22 12 23	Facility Indoor Potable-water Storage Tanks	155		23 64 26	Rotary-screw Water Chillers	200
22 13	Facility Sanitary Sewerage	156		23 64 33	Modular Water Chillers	201
22 13 16	Sanitary Waste And Vent Piping	156		23 65	Cooling Towers	202
22 13 19	Sanitary Waste Piping Specialties	167		23 65 13	Forced-Draft Cooling Towers	202
22 33	Electric Domestic Water Heaters	167		23 65 14	Induced-draft Cooling Towers	202
22 33 30	Residential, Electric Domestic Water Heater	167		23 73	Indoor Central-Station Air-Handling Unit	203
22 41	Residential Plumbing Fixtures	168		23 73 13	Modular Indoor Central-station Air-handling Units	203
22 41 13	Residential Water Closets, Urinals, And Bidets	168		23 74	Packaged Outdoor Hvac Equipment	204
22 41 16	Residential Lavatories And Sinks	170		23 74 16	Packaged Rooftop Air-Conditioning Units	204
22 41 19	Residential Bathtubs	173		23 76	Evaporative Air-cooling Equipment	204
22 41 23	Residential Showers	173		23 76 13	Direct Evaporative Air Coolers	204
22 41 39	Residential Faucets, Supplies, And Trim	174		23 81	Decentralized Unitary Hvac Equipment	205
22 42	Commercial Plumbing Fixtures	175		23 81 19	Self-contained Air-conditioners	205
22 42 13	Commercial Water Closets, Urinals, And Bidets	175		23 81 26	Split-system Air-conditioners	206
23	Heating, Ventilating, and Air Conditioning (HVAC)	179		23 82	Convection Heating And Cooling Units	207

Unit Price Section - Table of Contents

Div. No.	Title	Page	Div. No.	Title	Page
23 07	Hvac Insulation	181	23 82 19	Fan Coil Units	207
23 07 13	Duct Insulation	181	23 82 36	Finned-tube Radiation Heaters	207
23 07 19	Hvac Piping Insulation	181	26	Electrical	209
23 09	Instrumentation And Control For Hvac	182	26 05	Common Work Results For Electrical	211
23 09 23	Direct-digital Control System For Hvac	182	26 05 13	Medium-Voltage Cables	211
23 09 33	Electric And Electronic Control System For Hvac	183	26 05 19	Low-voltage Electrical Power Conductors And Cables	217
23 09 53	Pneumatic And Electric Control System For Hvac	184	26 05 23	Control-voltage Electrical Power Cables	225
23 21	Hydronic Piping And Pumps	184	26 05 26	Grounding And Bonding For Electrical Systems	225
23 21 13	Hydronic Piping	184	26 05 33	Raceway And Boxes For Electrical System	227
23 21 20	Hydronic Hvac Piping Specialties	186	26 05 36	Cable Trays For Electrical Systems	230
26	Electrical	209	X 31	Earthwork	277
26 05	Common Work Results For Electrical	232	31 62	Driven Piles	285
26 05 90	Residential Applications	232	31 62 13	Concrete Piles	285
26 09	Instrumentation And Control For Electrical Systems	253	31 63	Bored Piles	285
26 09 13	Electrical Power Monitoring	253	31 63 23	Bored Concrete Piles	285
26 24	Switchboards And Panelboards	253	32	Exterior Improvements	287
26 24 13	Switchboards	253	32 11	Base Courses	289
26 24 19	Motor-control Centers	255	32 11 13	Subgrade Modifications	289
26 27	Low-voltage Distribution Equipment	255	32 11 23	Aggregate Base Courses	289
26 27 16	Electrical Cabinets And Enclosures	255	32 11 26	Asphaltic Base Courses	290
26 27 26	Wiring Devices	256	32 12	Flexible Paving	290
26 28	Low-voltage Circuit Protective Devices	259	32 12 13	Preparatory Coats	290
26 28 16	Enclosed Switches And Circuit Breakers	259	32 12 16	Asphalt Paving	291
26 41	Facility Lightning Protection	265	32 12 36	Seal Coats	291
26 41 13	Lightning Protection For Structures	265	32 13	Rigid Paving	291
26 51	Interior Lighting	266	32 13 13	Concrete Paving	291
26 51 13	Incandescent Interior Lighting	266	32 14	Unit Paving	292
27	Communications	269	32 14 13	Precast Concrete Unit Paving	292
27 15	Communications Horizontal Cabling	271	32 14 40	Stone Paving	292
27 15 10	Special Communications Cabling	271	32 16	Curbs, Gutters, Sidewalks, and Driveways	293
28	Electronic Safety And Security	273	32 16 13	Curbs and Gutters	293
28 46	Fire Detection and Alarm	275	32 17	Paving Specialties	293
28 46 11	Fire Sensors and Detectors	275	32 17 23	Pavement Markings	293
28 46 12	Other Initiating Devices	275	32 31	Fences And Gates	293
28 46 21	Fire Alarm	275	32 31 13	Chain Link Fences And Gates	293
28 46 23	Fire Alarm Notification Appliances	276	32 31 26	Wire Fences And Gates	294
31	Earthwork	277	33	Utilities	297
31 08	Commissioning of Earthwork	279	33 01	Operation And Maintenance of Utilities	299
31 08 13	Pile Load Testing	279	33 01 10	Operation and Maintenance of Water Utilities	299
31 11	Clearing And Grubbing	280	33 05	Common Work Results For Utilities	299
31 11 10	Clearing And Grubbing Land	280	33 05 39	Concrete Pipe	299
31 13	Selective Tree And Shrub Removal And Trimming	280	33 05 41	Vitrified Clay Utility Pipe	300
31 13 13	Selective Tree And Shrub Removal	280	33 05 61	Concrete Manholes	301
31 14	Earth Stripping And Stockpiling	280	33 05 79	Brick Manholes	302
31 14 13	Soil Stripping And Stockpiling	280	33 05 81	Metallic Castings for Utility Structures	303

Unit Price Section - Table of Contents

Div. No.	Title	Page	Div. No.	Title	Page
31 22	Grading	280	33 14	Water Utility Transmission and Distribution	304
31 22 19	Finish Grading	280	33 14 13	Public Water Utility Distribution Piping	304
31 23	Excavation And Fill	281	33 14 23	Enclosures for Water Utility Piping and Valves	312
31 23 16	Excavation	281	33 31	Sanitary Utility Sewerage Piping	312
31 23 19	Dewatering	283	33 31 13	Site Sanitary Sewerage Gravity Piping	312
31 23 23	Fill	283	33 34	Sanitary Utility Sewerage Force Mains	314
31 24	Embankments	283	33 34 13	Sanitary Utility Sewerage Inverted Siphons	314
31 24 13	Roadway Embankments	283	33 34 19	Septic Tank Accessories	315
31 31	Soil Treatment	284	33 42	Stormwater Conveyance	315
31 31 16	Termite Control	284	33 42 33	Stormwater Curbside Drains and Inlets	315
31 41	Shoring	284	33 42 41	Gratings and Frames for Stormwater Drainage Inlets	316
31 41 13	Timber Shoring	284			

01 45 Quality Control								
01 45 23		Testing And Inspecting Services	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
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 :						
	10005	Compressive strength test on rock samples	/test	2,950.00	-	-	2,950.00	3,835.00
	10010	Chemical analysis of soil samples	/test	2,950.00	-	-	2,950.00	3,392.50
	10015	Chemical analysis of water samples	/test	2,950.00	-	-	2,950.00	3,392.50

02 32 Geotechnical Investigations								
02 32 19		Exploratory Excavations	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Test Pits						
		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	767.00	-	-	767.00	882.05
	10010	Over 6.0 m and upto 10.0 m or refusal, whichever is earlier	m	826.00	-	-	826.00	949.90
	10015	Over 10.0 m and upto 12.0 m or refusal, whichever is earlier	m	885.00	-	-	885.00	1,017.75
		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	1,534.00	-	-	1,534.00	1,764.10
	10025	Over 6.0 m and upto 10.0 m or refusal, which is earlier	m	1,593.00	-	-	1,593.00	1,831.95
	10030	Over 10.0 m and upto 12.0 m or refusal, which is earlier	m	1,652.00	-	-	1,652.00	1,899.80
		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	3,068.00	-	-	3,068.00	3,528.20
	10040	Hard rock	m	6,372.00	-	-	6,372.00	7,327.80
02 41 Demolition								
02 41 13		Selective Site Demolition	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
17		Demolish, Remove Pavement And Curb						
		Dismantling of road including taking out soling, metalling etc, stacking of serviceable materials and disposal of unserviceable materials within a lead of 50 m :						
	10005	Water bound macadam	cum	-	548.26	-	548.26	630.50
	10010	Bituminous macadam / asphaltic concrete / mastic asphalt.	cum	-	872.57	-	872.57	1,003.46
	10015	Dismantling of dry stone pitching including stacking of serviceable materials and disposal of unserviceable materials within a lead of 50 m.	cum	-	774.38	-	774.38	890.54
30		Minor Site Demolition						
		Taking out door, window and clerestory window shutters (metal or wood) including chowkhats, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas:						

03 05 Common Work Results For Concrete								
03 05 05		Selective Demolition for Concrete	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Selective Concrete 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	-	503.65	-	503.65	579.20
	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	-	2,064.98	-	2,064.98	2,374.73
	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	-	1,877.27	-	1,877.27	2,158.86
03 05 13		Basic Concrete Materials	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
18		Admixture, Concrete						
		Providing and mixing admixtures, conforming to IS:9103, in recommended proportions, in concrete :						
	10005	Accelerating admixtures	kg	102.49	12.39	-	114.88	132.11
	10010	Retarding admixtures	kg	121.56	12.39	-	133.95	154.04
	10015	Air entraining admixture	kg	113.22	12.39	-	125.61	144.45
	10020	Water reducing admixtures (Plasticizer/Super Plasticizer)	kg	171.62	12.39	-	184.01	211.61
21		Concrete Additives						
	10005	Providing and mixing water proofing compound, conforming to IS:2645, in cement concrete/reinforced concrete works.	kg	133.48	12.39	-	145.87	167.75
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	84.01	169.33	-	253.34	291.34
	10010	Foundation beams, floor channels, kerb stones and drain walls.	sqm	84.01	169.33	-	253.34	291.34
	10015	Sides of columns, piers and pedestals of	sqm	108.22	537.51	-	645.73	742.59

04 05 Common Work Results For Masonry								
04 05 05		Selective Demolition for Masonry	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Selective Demolition, Masonry						
	10005	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	-	2,294.44	-	2,294.44	2,638.61
	10010	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	-	1,440.71	-	1,440.71	1,656.82
04 05 19		Masonry Anchorage And Reinforcing	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
16		Masonry Anchors						
		Providing and fixing cramps of required size and shape in RCC/CC backing, including drilling necessary holes in stones and embedding the cramp in the holes and filling of holes with cement mortar 1:2 with fine sand, complete, (fasteners to be paid separately), cramps of :						
	10005	Gunmetal	kg	761.32	269.74	-	1,031.06	1,185.72
	10010	Stainless steel	kg	857.58	269.74	-	1,127.32	1,296.42

04 21 Clay Unit Masonry								
04 21 13		Brick Masonry	UNIT	BARE COST				TOTAL INCL OHP
				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	3,281.76	1,808.10	56.05	5,145.91	5,917.80
	10010	Superstructures upto 20.0 m above plinth level.	cum	3,281.76	3,464.55	151.28	6,897.59	7,932.23
	10015	Basement, under ground water tank and the like, upto 7.0 m below GL	cum	3,281.76	2,543.18	87.36	5,912.30	6,799.15
	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	4,761.61	5,411.55	121.68	10,294.84	11,839.07
	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	-	465.80	-	465.80	535.67
	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	-	924.60	-	924.60	1,063.29
	10035	Add for brick work in cement mortar 1:4 in place of 1:6	cum	247.00	-	-	247.00	284.05

05 05 Common Work Results For Metals								
05 05 05		Selective Demolition for Metals	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Selective Metals Demolition						
	10005	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	-	370.23	-	370.23	425.76
	10010	Dismantling steel work in single sections at all heights and depths including dismembering and stacking within a 50 m lead.	Quintal	-	222.14	-	222.14	255.46
05 05 21		Fastening Methods For Metal	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
90		Welding Steel						
	10005	Gas welding including mobilization at site, complete, (for designed structural welding).	10 mm/m	324.50	-	-	324.50	373.18
	10010	Gas welding including mobilization at site, complete, (for non structural welding).	10 mm	4.47	-	-	4.47	5.14
	10015	Electric arc welding including mobilization at site, complete (for designed structural welding).	10 mm/m	243.08	-	-	243.08	279.54
	10020	Electric arc welding including mobilization at site, complete (for non structural welding).	10 mm	3.58	-	-	3.58	4.12
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	59.59	61.65	-	121.24	139.43

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	148.83	49.65	-	198.48	228.25
	10010	Hot finished, seamless tubes	kg	148.83	49.65	-	198.48	228.25
	10015	Electric resistance or induction welded tubes	kg	148.83	49.65	-	198.48	228.25
	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	72.19	34.38	-	106.57	122.56
	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	75.64	24.39	-	100.03	115.03

06 05 Common Work Results For Wood, Plastics, And Composites							
06 05 05	Selective Demolition for Wood, Plastics, and Composites	UNIT	BARE COST				TOTAL INCL OHP
			Material	Labour	Equipment	TOTAL	
10	Selective Demolition Wood Framing						
	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	-	12.98	-	12.98	14.93
	10010 over 4000 sqmm	cum	-	3,245.00	-	3,245.00	3,731.75
	Dismantling and removing wooden boardings in lining of walls and partitions, excluding supporting members, but including stacking within a 50 m lead, of thickness:						
	10015 upto 10 mm	sqm	-	39.26	-	39.26	45.15
	10020 over 10 mm and upto 25 mm	sqm	-	50.07	-	50.07	57.58
	10025 over 25 mm and upto 40 mm	sqm	-	57.23	-	57.23	65.81
06 05 73	Wood Treatment	UNIT	BARE COST				TOTAL INCL OHP
			Material	Labour	Equipment	TOTAL	
33	Preservative Wood Treatment						
	10005 Providing and applying two coats of Solignum, black shade to various concealed wood members including preparation of surface, etc. (girthed area shall be measured for runners, posts, etc.	sqm	124.89	26.99	-	151.88	174.66

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	60,549.85	10,140.63	-	70,690.48	81,294.05
	10010 2nd class Deodar wood.	cum	59,423.20	10,140.63	-	69,563.83	79,998.40
	10015 Sal wood	cum	36,522.70	10,140.63	-	46,663.33	53,662.83
	10020 2nd class Kail wood	cum	30,015.85	10,140.63	-	40,156.48	46,179.95
	10025 Hollock wood	cum	38,650.00	10,140.63	-	48,790.63	56,109.22
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	443.43	342.24	-	785.67	903.52
	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 :						
	10010 Sal wood	sqm	617.21	498.04	-	1,115.25	1,282.54
	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 :						
	10015 2nd class CP teak Wood	sqm	776.10	342.24	-	1,118.34	1,286.09

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	194.29	207.01	24.66	425.96	489.85
	10010	50 mm thick	sqm	240.89	229.29	27.35	497.53	572.16
	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	133.48	12.39	-	145.87	167.75
	10020	Applying a coat of residual petroleum bitumen of penetration 80/100 @ 1.70 kg/sq. on damp-proof course.	sqm	96.53	35.09	-	131.62	151.36

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	311.90	53.99	-	365.89	420.77
	10010	On external wall surfaces.	sqm	311.90	62.98	-	374.88	431.11
		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	198.42	71.98	-	270.40	310.96
	10020	On external wall surfaces	sqm	198.42	71.98	-	270.40	310.96
	10025	Add for aluminum foil of thickness 0.1 mm instead of 0.075 mm	sqm	29.78	-	-	29.78	34.25
	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	102.53	68.38	-	170.91	196.55
	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	239.74	71.98	-	311.72	358.48
	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	312.13	107.97	-	420.10	483.12
	10045	Providing and laying damp-proofing treatment comprising a primer coat, one	sqm	166.40	107.97	-	274.37	315.53

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	8,462.57	2,264.64	-	10,727.21	12,336.29
	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	8,464.10	2,264.64	-	10,728.74	12,338.05
	10015	Add for MS angles 40 x 40 x 6 mm for diagonal braces.	sqm	1,271.53	514.09	-	1,785.62	2,053.46
	10020	Add for MS flats 30 x 6 mm for diagonal braces and central cross piece.	sqm	608.96	494.80	-	1,103.76	1,269.32
08 11 16		Aluminum Doors And Frames	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
11		Aluminum Doors 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	360.66	39.54	-	400.20	460.23
	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	387.78	51.93	-	439.71	505.67
08 11 21		Steel Doors and Frames	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
12		Steel Doors and Frames						
		In composite units of doors, windows and ventilator :						
	10005	(For overall portion treated as fixed)	sqm	7,732.13	730.39	2.24	8,464.76	9,734.47
		Add for side hung portion :						
	10010	Doors	sqm	595.90	-	-	595.90	685.29
	10015	Windows	sqm	595.90	-	-	595.90	685.29
	10020	Add for top hung portion.	sqm	0.00	-	-	0.00	0.00
	10025	Add for centre hung portion.	sqm	0.00	-	-	0.00	0.00
	10030	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)	m	137.30	26.34	-	163.64	188.19

09 05 Common Work Results For Finishes								
09 05 05		Selective Demolition for Finishes	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Selective Demolition, Ceilings						
		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	-	101.63	-	101.63	116.87
	10010	Wooden planks	sqm	-	152.45	-	152.45	175.32
	10015	Glass / Mirror / Fabric / Extruded metal	sqm	-	203.63	-	203.63	234.17
	10020	Asbestos cement, celotax or other hard board	sqm	-	101.63	-	101.63	116.87
20		Selective Demolition, Flooring						
		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	-	51.01	-	51.01	58.66
	10010	over 25 mm and upto 40 mm	sqm	-	78.06	-	78.06	89.77
	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	-	89.15	-	89.15	102.52
	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	-	156.05	-	156.05	179.46
		Demolition of flooring including stacking of serviceable materials and disposal of unserviceable materials upto a 50m lead, with :						
	10025	Parquet flooring	sqm	-	57.23	-	57.23	65.81
	10030	PVC flooring	sqm	-	12.39	-	12.39	14.25
	10035	Carpet flooring	sqm	-	12.39	-	12.39	14.25
30		Selective Demolition, Walls And Partitions						
	10005	Dismantling aluminum partitions, doors, windows, fixed glazing and false ceiling and gypsum partitions / false ceiling including stacking of serviceable materials and disposal of unserviceable materials upto a 50 m lead.	sqm	-	38.65	-	38.65	44.45

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,	sqm	173.67	324.50	3.01	501.18	576.36

10 28 Toilet, Bath, And Laundry Accessories							
10 28 13	Toilet Accessories	UNIT	BARE COST				TOTAL INCL OHP
			Material	Labour	Equipment	TOTAL	
15	Soap Dispenser						
	Providing and fixing wall mounted liquid soap dispenser, complete, of :						
	10005 CP brass with glass bottle	Each	1,393.03	359.90	-	1,752.93	2,015.87
	10010 CP brass with CP brass bottle	Each	4,364.94	359.90	-	4,724.84	5,433.57
	10015 Stainless steel with stainless steel bottle	Each	1,089.61	359.90	-	1,449.51	1,666.94
17	Grab Bar						
	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 :						
	10005 Wash basin and shower - 610 mm long	Each	1,897.11	540.39	-	2,437.50	2,803.13
	10010 Wall-mounted /floor-mounted for European type water closet - 830 mm high	Each	1,513.47	540.39	-	2,053.86	2,361.94
	10015 Bath tub - 1320 mm long	Each	1,718.08	540.39	-	2,258.47	2,597.24
23	Toilet Paper Holder						
	10005 Providing and fixing CP brass toilet paper holder, surface mounted complete.	Each	1,134.29	215.94	-	1,350.23	1,552.76
	10010 Providing and fixing white glazed vitreous China recessed type toilet paper holder 150 x 150 mm including cutting and making good the walls complete.	Each	778.25	540.39	-	1,318.64	1,516.44
	10015 Providing and fixing white vitreous China toilet paper holder 200 x 150 mm surface mounted complete.	Each	986.99	215.94	-	1,202.93	1,383.37
25	Towel Rail						
	10005 Providing and fixing CP brass towel rail 20 mm dia. 600 mm long with CP brass brackets complete.	Each	2,017.15	306.10	-	2,323.25	2,671.74
27	Towel Ring						
	10005 Providing and fixing CP brass towel ring complete with bracket.	Each	1,324.98	215.94	-	1,540.92	1,772.06
37	Soap Dish						
	Providing and fixing wall mounted soap dish of :						
	10005 CP brass of size 150 x 150 mm	Each	1,488.37	215.94	-	1,704.31	1,959.96
	10010 CP brass of size 200 x 150 mm	Each	1,892.75	215.94	-	2,108.69	2,424.99
	10015 Stainless steel of size 150 x 150 mm	Each	213.08	215.94	-	429.02	493.37
	10020 Stainless steel of size 200 x 150 mm	Each	242.91	215.94	-	458.85	527.68
	Providing and fixing white vitreous China recessed type soap tray in cement mortar including pointing with white cement, complete, of size :						
	10025 150 x 75 mm	Each	1,345.22	449.88	-	1,795.10	2,064.37
	10030 150 x 150 mm	Each	818.49	540.39	-	1,358.88	1,562.71
	10035 200 x 100 mm	Each	479.30	540.39	-	1,019.69	1,172.64
	10040 200 x 150 mm	Each	1,385.97	540.39	-	1,926.36	2,215.31
	10045 Tile series 150 x 150 mm	Each	818.49	540.39	-	1,358.88	1,562.71
	10050 Tile series 216 x 108 mm	Each	1,359.20	540.39	-	1,899.59	2,184.53
38	Hand Dryer						

11 30 Residential Equipment								
11 30 34		Residential Ceiling Fans	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
15		Ceiling Fans						
		Providing, installing and testing and commissioning ceiling fan, conforming to IS:374, including regulator, wiring the down rod of standard length (up to 300 mm) with 1.5 sq.mm., PVC insulated, single core cable, etc., complete, of sweep :						
		900 mm :						
	10005	Aluminium conductor wiring	Each	3,480.42	202.82	-	3,683.24	4,235.73
	10010	Copper conductor wiring	Each	3,493.86	202.82	-	3,696.68	4,251.18
		1200 mm :						
	10015	Aluminium conductor wiring	Each	3,480.42	202.82	-	3,683.24	4,235.73
	10020	Copper conductor wiring	Each	3,493.86	202.82	-	3,696.68	4,251.18
		1400 mm :						
	10025	Aluminium conductor wiring	Each	3,807.56	202.82	-	4,010.38	4,611.94
	10030	Copper conductor wiring	Each	3,821.00	202.82	-	4,023.82	4,627.39
61		Ceiling Fans Accessories						
		Providing and fixing 100 mm extra length of heavy duty galvanised steel pipe down rod, conforming to IS:1239, including painting, etc. : (Note:- More than 50 mm length shall be rounded off to the nearest 100 mm and 50 mm or less shall be ignored) :						
	10005	15 mm dia	Each	21.80	42.04	-	63.84	73.42
	10010	20 mm dia	Each	27.50	42.04	-	69.54	79.97

12 36		Countertops		BARE COST				TOTAL INCL OHP
12 36 40	Stone Countertops	UNIT	Material	Labour	Equipment	TOTAL		
10	Natural Stone Countertops							
	Providing and fixing counters or platform with front panel, splash boards, 18 mm thick prepolished colour granite slabs for kitchen/wash basin, vanity counters etc on 20 mm (minimum) thick base cement mortar 1:3 with coarse sand including laying cement slurry pigmented to match the shade of slab, filling the joints, complete :							
	10005 Black granite	sqm	2,872.08	2,465.13	-	5,337.21	6,137.79	
	10010 Gray granite	sqm	2,069.73	2,465.13	-	4,534.86	5,215.09	
	10015 Ruby Red granite	sqm	2,214.81	2,465.13	-	4,679.94	5,381.93	
	10020 Pink / Brown / Yellow granite	sqm	2,143.85	2,465.13	-	4,608.98	5,300.33	
	10025 Green granite	sqm	2,223.07	2,465.13	-	4,688.20	5,391.43	
	10030 Add for providing edge mouldings in profile to 18 mm thick granite stone counters, vanity, etc. including machine polishing to exposed edges to give high glass/mirror polish finish, etc.	m	2.20	216.64	309.40	528.24	607.48	
	10035 Add for providing openings for wash basins / kitchen sink in kitchen platform, vanity counters and similar location in granite stone work including necessary holes for pillar taps, etc., rubbing and polishing of cut edges, etc., complete.	Each	2.20	449.88	295.00	747.08	859.14	
	10040 Add for fixing marble / granite stones in facia and / or drop panels of width upto 200 mm with epoxy resin (Araldite or equivalent) adhesive including cleaning etc., complete.	m	2.20	479.93	-	482.13	554.45	
	Providing and fixing counters/platform with front panel, splash boards, 18 mm thick mirror-polished marble slabs for kitchen / wash basin, vanity counters etc on 20 mm average thick base cement mortar 1:3 with coarse sand including laying cement slurry @ 2kg / sqm pigmented to match the shade of slab, filling the joints, complete :							
	Upto 0.2 sqm:							
	10045 Makrana Alveta	sqm	1,975.56	2,605.05	-	4,580.61	5,267.70	
	10050 Banswara White	sqm	1,436.84	2,605.05	-	4,041.89	4,648.17	
	10055 Rajnagar Plain (Agaria White)	sqm	1,417.14	2,605.05	-	4,022.19	4,625.52	
	10060 Ambaji White	sqm	1,595.83	2,605.05	-	4,200.88	4,831.01	
	10065 Makrana Dongri Adanga	sqm	1,298.88	2,605.05	-	3,903.93	4,489.52	
	10070 Makrana Chak Dongri	sqm	1,334.36	2,605.05	-	3,939.41	4,530.32	
	10075 Bhainslana Black	sqm	1,004.11	2,605.05	-	3,609.16	4,150.53	
	10080 Ambaji Green	sqm	2,674.33	2,605.05	-	5,279.38	6,071.29	
	10085 Abu Green	sqm	1,179.05	2,605.05	-	3,784.10	4,351.72	
	10090 Udaipur Green	sqm	1,533.81	2,605.05	-	4,138.86	4,759.69	
	10095 Makrana Pink Plain	sqm	1,137.37	2,605.05	-	3,742.42	4,303.78	
	10100 Makrana Pink Adanga	sqm	1,000.73	2,605.05	-	3,605.78	4,146.65	
	10105 Udaipur Pink	sqm	1,027.00	2,605.05	-	3,632.05	4,176.86	
	Over 0.2 sqm and upto 0.5 sqm:							
	10110 Makrana Alveta	sqm	2,323.77	2,605.05	-	4,928.82	5,668.14	
	10115 Banswara White	sqm	1,522.25	2,605.05	-	4,127.30	4,746.40	

21 05 Common Work Results For Fire Suppression								
21 05 19		Meters and Gages for Fire-Suppression Systems	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
52		Pressure Gauge						
		Providing and fixing pressure gauges with isolation cocks and chrome plated copper pipes at hydrant stations to read pressure from 0-10 kg per sq cm, complete, and of dial dia :						
	10005	100 mm	Each	1,765.29	359.90	-	2,125.19	2,443.97
	10010	150 mm	Each	1,747.49	359.90	-	2,107.39	2,423.50
		Providing and fixing dial type pressure gauge, calibrated to 0-10 kg per sq cm, with isolation cock and chrome plated copper pipe at hydrant station, of dial dia :						
	10015	50 mm	Each	1,849.92	359.90	-	2,209.82	2,541.29
	10020	75 mm	Each	1,849.92	359.90	-	2,209.82	2,541.29
	10025	100 mm	Each	1,765.29	359.90	-	2,125.19	2,443.97
	10030	150 mm	Each	1,765.29	359.90	-	2,125.19	2,443.97
62		Accessories, Meter and Gages						
		Providing and fixing stainless steel orifice flange 6 mm thick, to obtain designed pressure in fire hydrants, complete, including fixing tags showing its designation, to be placed in main pipe, of dia :						
	10005	80 mm	Each	1,180.00	89.98	-	1,269.98	1,460.48
	10010	100 mm	Each	1,180.00	89.98	-	1,269.98	1,460.48
21 05 23		General-duty Valves For Water-based Fire-suppression Piping	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
50		General-Duty Valves						
	10005	Providing and fixing 25 mm size single acting air valves with SCR inlet, conforming to IS-12992, complete.	Each	2,145.38	359.90	-	2,505.28	2,881.07

21 11 Facility Fire-suppression Water-service Piping								
21 11 16		Facility Fire Hydrants	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
50		Fire Hydrants For Buildings						
	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	29,118.83	1,161.68	-	30,280.51	34,822.59
	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	39,581.69	540.39	-	40,122.08	46,140.39

22 05 Common Work Results For Plumbing								
22 05 05		Selective Demolition for Plumbing	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Plumbing Demolition						
		Dismantling CI / GS / PVC / asbestos exposed rain water pipes with fittings and clamps including stacking the serviceable material and disposal of unserviceable material within a 50 m lead, of dia:						
	10005	upto 80 mm	m	-	44.60	-	44.60	51.29
	10010	over 80 mm and upto 150 mm	m	-	46.46	-	46.46	53.43
	10015	over 150 mm	m	-	48.32	-	48.32	55.57
		Dismantling CI / GS / PVC / Asbestos rain water pipes embedded in concrete / brick work with fittings and clamps including dismantling of concrete/brick work etc., stacking the serviceable material and disposal of unserviceable materials up to 50 m lead, of dia:						
	10020	upto 80 mm	m	-	140.50	-	140.50	161.58
	10025	over 80 mm and upto 150 mm	m	-	302.19	-	302.19	347.52
	10030	over 150 mm	m	-	340.42	-	340.42	391.48
22 05 19		Meters And Gages For Plumbing Piping	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
31		Water Meter						
		Providing, fixing and testing water meters, conforming to IS:779, including galvanised steel unions, nipples, CI surface boxes fixed in wall, cutting and making good the wall, of nominal size :						
	10005	15 mm	Each	4,814.05	774.38	-	5,588.43	6,426.69
	10010	20 mm	Each	5,899.01	774.38	-	6,673.39	7,674.40
	10015	25 mm	Each	7,973.83	963.14	-	8,936.97	10,277.52
	10020	50 mm	Each	18,368.35	1,169.72	-	19,538.07	22,468.78
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	281.64	89.98	-	371.62	427.36
	10010	10 mm	Each	281.64	125.97	-	407.61	468.75
		Providing, fixing and testing brass ball valves with carbon steel lever, complete of size :						
	10015	15 mm	Each	386.89	125.97	-	512.86	589.79
	10020	20 mm	Each	1,054.57	125.97	-	1,180.54	1,357.62
	10025	25 mm	Each	1,677.47	143.96	-	1,821.43	2,094.64
	10030	32 mm	Each	2,293.20	143.96	-	2,437.16	2,802.73
	10035	40 mm	Each	2,498.06	179.95	-	2,678.01	3,079.71
	10040	50 mm	Each	3,160.43	179.95	-	3,340.38	3,841.44
		Providing, fixing and testing brass ball valves with aluminium alloy lever of size :						
	10045	15 mm	Each	829.88	125.97	-	955.85	1,099.23
	10050	20 mm	Each	1,255.42	125.97	-	1,381.39	1,588.60
	10055	25 mm	Each	1,567.02	143.96	-	1,710.98	1,967.63
	10060	32 mm	Each	3,049.55	143.96	-	3,193.51	3,672.54
	10065	40 mm	Each	4,322.58	179.95	-	4,502.53	5,177.91

23 07 Hvac Insulation								
23 07 13		Duct Insulation	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
10		Duct Thermal 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	835.30	476.71	-	1,312.01	1,508.81
	10010	25 mm thick 24 kg per cum	sqm	897.09	476.71	-	1,373.80	1,579.87
	10015	25 mm thick 32 kg per cum	sqm	958.89	476.71	-	1,435.60	1,650.94
	10020	50 mm thick 16 kg per cum	sqm	995.54	476.71	-	1,472.25	1,693.09
	10025	50 mm thick 24 kg per cum	sqm	1,117.89	476.71	-	1,594.60	1,833.79
	10030	50 mm thick 32 kg per cum	sqm	1,236.53	476.71	-	1,713.24	1,970.23
		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	614.25	364.33	-	978.58	1,125.37
	10040	20 mm thick 32 kg per cum	sqm	788.57	364.33	-	1,152.90	1,325.84
	10045	25 mm thick 32 kg per cum	sqm	990.97	364.33	-	1,355.30	1,558.60
	10050	30 mm thick 32 kg per cum	sqm	1,165.30	364.33	-	1,529.63	1,759.07
	10055	40 mm thick 32 kg per cum	sqm	1,541.06	364.33	-	1,905.39	2,191.20
	10060	50 mm thick 32 kg per cum	sqm	1,918.34	364.33	-	2,282.67	2,625.07
23 07 19		Hvac Piping Insulation	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
68		HVAC Piping Insulation, Fiber Glass						
		Providing and fixing, resin bonded, fibrous mineral wool slab insulation, water resistant, heat resistant upto temperature 700oC, conforming to IS:8183, wrapped with PVC backed fire resistant hessiancloth, complete, of following density and thickness:						
		Density 48 kg per cum,						
	10005	25 mm thick	sqm	334.82	476.71	-	811.53	933.26
	10010	40 mm thick	sqm	463.72	476.71	-	940.43	1,081.49
	10015	50 mm thick	sqm	582.35	476.71	-	1,059.06	1,217.92
	10020	75 mm thick	sqm	804.97	476.71	-	1,281.68	1,473.93
		Density 64 kg per cum,						
	10025	25 mm thick	sqm	389.46	476.71	-	866.17	996.10
	10030	40 mm thick	sqm	554.78	476.71	-	1,031.49	1,186.21
	10035	50 mm thick	sqm	682.52	476.71	-	1,159.23	1,333.11
	10040	75 mm thick	sqm	957.18	476.71	-	1,433.89	1,648.97
71		HVAC Piping Insulation, Polyurethane						
		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 :						
	10005	20 mm	m	387.01	56.05	-	443.06	509.52
	10010	25 mm	m	418.98	56.05	-	475.03	546.28
	10015	32 mm	m	481.55	56.05	-	537.60	618.24

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	392.98	449.88	-	842.86	969.29
	10010	1 core 400 sqmm	Set	448.94	449.88	-	898.82	1,033.64
	10015	1 core 500 sqmm	Set	529.82	540.39	-	1,070.21	1,230.74
	10020	1 core 630 sqmm	Set	869.84	540.39	-	1,410.23	1,621.76
	10025	2 core 6 sqmm	Set	77.78	179.95	-	257.73	296.39
	10030	2 core 10 sqmm	Set	78.96	215.94	-	294.90	339.14
	10035	2 core 16 sqmm	Set	108.61	215.94	-	324.55	373.23
	10040	2 core 25 sqmm	Set	181.48	215.94	-	397.42	457.03
	10045	2 core 35 sqmm	Set	184.16	215.94	-	400.10	460.12
	10050	2 core 50 sqmm	Set	192.08	215.94	-	408.02	469.22
	10055	2 core 70 sqmm	Set	201.95	215.94	-	417.89	480.57
	10060	3 core 10 sqmm	Set	109.28	215.94	-	325.22	374.00
	10065	3 core 16 sqmm	Set	182.66	215.94	-	398.60	458.39
	10070	3 core 25 sqmm	Set	187.97	215.94	-	403.91	464.50
	10075	3 core 35 sqmm	Set	191.99	215.94	-	407.93	469.12
	10080	3 core 50 sqmm	Set	203.87	215.94	-	419.81	482.78
	10085	3 core 70 sqmm	Set	341.57	287.92	-	629.49	723.91
	10090	3 core 95 sqmm	Set	355.49	287.92	-	643.41	739.92
	10095	3 core 120 sqmm	Set	389.96	449.88	-	839.84	965.82
	10100	3 core 150 sqmm	Set	415.25	449.88	-	865.13	994.90
	10105	3 core 185 sqmm	Set	709.34	449.88	-	1,159.22	1,333.10
	10110	3 core 240 sqmm	Set	1,020.17	449.88	-	1,470.05	1,690.56
	10115	3 core 300 sqmm	Set	1,088.42	449.88	-	1,538.30	1,769.05
	10120	3 core 400 sqmm	Set	1,396.90	593.84	-	1,990.74	2,289.35
	10125	3½ core 25 sq. mm	Set	192.69	215.94	-	408.63	469.92
	10130	3½ core 35 sqmm	Set	196.71	287.92	-	484.63	557.32
	10135	3½ core 50 sqmm	Set	210.36	287.92	-	498.28	573.02
	10140	3½ core 70 sqmm	Set	349.40	287.92	-	637.32	732.92
	10145	3½ core 95 sqmm	Set	367.28	449.88	-	817.16	939.73
	10150	3½ core 120 sqmm	Set	408.49	449.88	-	858.37	987.13
	10155	3½ core 150 sqmm	Set	693.76	449.88	-	1,143.64	1,315.19
	10160	3½ core 185 sqmm	Set	732.51	449.88	-	1,182.39	1,359.75
	10165	3½ core 240 sqmm	Set	1,053.87	449.88	-	1,503.75	1,729.31
	10170	3½ core 300 sqmm	Set	1,279.79	593.84	-	1,873.63	2,154.67
	10175	3½ core 400 sqmm	Set	1,703.64	593.84	-	2,297.48	2,642.10
	10180	4 core 10 sq. mm	Set	112.65	215.94	-	328.59	377.88
	10185	4 core 16 sqmm	Set	187.38	215.94	-	403.32	463.82
	10190	4 core 25 sqmm	Set	194.46	287.92	-	482.38	554.74
	10195	4 core 35 sqmm	Set	199.82	287.92	-	487.74	560.90
	10200	4 core 50 sqmm	Set	333.14	287.92	-	621.06	714.22
	10205	4 core 70 sqmm	Set	334.10	449.88	-	783.98	901.58
	10210	4 core 95 sqmm	Set	385.15	449.88	-	835.03	960.28
	10215	4 core 120 sqmm	Set	666.79	449.88	-	1,116.67	1,284.17

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	10.68	64.90	-	75.58	86.92
	10010	2 pair	m	20.33	64.90	-	85.23	98.01
	10015	3 pair	m	29.39	64.90	-	94.29	108.43
	10020	5 pair	m	44.72	64.90	-	109.62	126.06
	10025	10 pair	m	86.19	64.90	-	151.09	173.75
	10030	20 pair	m	166.03	64.90	-	230.93	265.57
	10035	50 pair	m	435.38	73.02	-	508.40	584.66
		0.61 mm dia,						
	10040	1 pair	m	13.94	64.90	-	78.84	90.67
	10045	2 pair	m	26.84	64.90	-	91.74	105.50
	10050	3 pair	m	39.36	64.90	-	104.26	119.90
	10055	5 pair	m	60.75	64.90	-	125.65	144.50
	10060	10 pair	m	117.41	64.90	-	182.31	209.66
	10065	20 pair	m	227.96	64.90	-	292.86	336.79
	10070	50 pair	m	618.66	73.02	-	691.68	795.43
		0.71 mm dia,						
	10075	1 pair	m	15.81	64.90	-	80.71	92.82
	10080	2 pair	m	40.62	64.90	-	105.52	121.35
	10085	3 pair	m	61.80	64.90	-	126.70	145.71
	10090	5 pair	m	101.68	64.90	-	166.58	191.57
	10095	10 pair	m	202.85	64.90	-	267.75	307.91
	10100	20 pair	m	403.13	64.90	-	468.03	538.23
	10105	50 pair	m	876.44	73.02	-	949.46	1,091.88

28 46 Fire Detection and Alarm								
28 46 11		Fire Sensors and Detectors	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
14		Smoke Detector						
		Providing and fixing smoke detector, conforming to IS:11360, including making connections, of type :						
	10005	Ionisation	Each	2,642.58	97.35	-	2,739.93	3,150.92
		Providing and fixing, addressable smoke detector, conforming to IS:11360, including making connection, of type :						
	10010	Ionisation	Each	5,842.56	97.35	-	5,939.91	6,830.90
	10015	Photo-electric/optical	Each	2,479.02	194.70	-	2,673.72	3,074.78
17		Beam Smoke Detection Sensors						
		Providing and fixing smoke detector, conforming to IS:11360, including making connections, of type :						
	10005	Photo-electric/optical	Each	2,479.02	194.70	-	2,673.72	3,074.78
27		Other Sensors						
	10005	Providing and fixing spot (response) indicator including making connection.	Each	203.32	227.15	-	430.47	495.04
50		Fire & Heat Detectors						
		Providing and fixing heat detector, conforming to IS:2175, including making connections, of type :						
	10005	Rate of rise (ROR)	Each	2,367.27	97.35	-	2,464.62	2,834.31
	10010	Fixed temperature	Each	2,076.47	97.35	-	2,173.82	2,499.89
	10015	Rate of rise - cum - fixed temperature	Each	2,279.08	97.35	-	2,376.43	2,732.89
		Providing and fixing, addressable heat detector, conforming to IS:2175, including making connections, of type :						
	10020	Rate of rise (ROR)	Each	5,568.45	97.35	-	5,665.80	6,515.67
	10025	Fixed temperature	Each	5,820.34	97.35	-	5,917.69	6,805.34
	10030	Rate of rise - cum - fixed temperature	Each	5,568.45	97.35	-	5,665.80	6,515.67
28 46 12		Other Initiating Devices	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
11		Fire Alarm Pull Stations						
	10005	Providing and fixing manual call box, complete with cover, switch including making connections.	Each	1,630.10	227.15	-	1,857.25	2,135.84
15		Fire Alarm Flow Switches						
	10005	Providing and fixing electrically operated flow indicating switches with threaded connection for indicating a minimum flow of 90 lpm in sprinkler branch line in each zone with necessary local junctions box close to flow switch, complete.	Each	11,067.04	629.83	-	11,696.87	13,451.40
28 46 21		Fire Alarm	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
11		Addressable Fire-Alarm Systems						
	10005	Providing fixing, testing and commissioning addressable automatic re-settable fault isolator for isolating shorted, de-wired, loose circuits between two successive fault isolators, including making connections.	Each	7,040.50	405.63	-	7,446.13	8,563.05
	10010	Providing, fixing, testing and commissioning addressable control module including	Each	7,040.50	811.25	-	7,851.75	9,029.51

31 08		Commissioning Of Earthwork		BARE COST				TOTAL INCL OHP
31 08 13	Pile Load Testing	UNIT	Material	Labour	Equipment	TOTAL		
11	Pile Load Testing							
	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	50,740.00	-	-	50,740.00	58,351.00	
	10010 above 50 ton and upto 100 ton	/test	92,630.00	-	-	92,630.00	106,524.50	
	10015 add for every additional 50 ton or part thereof	/test/50 t	50,740.00	-	-	50,740.00	58,351.00	
	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	50,740.00	-	-	50,740.00	58,351.00	
	10025 above 50 ton and upto 100 ton	/test	92,630.00	-	-	92,630.00	106,524.50	
	10030 add for every additional 50 ton or part thereof	/test/50 t	40,120.00	-	-	40,120.00	46,138.00	
	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	50,740.00	-	-	50,740.00	58,351.00	
	10040 above 50 t and upto 100 ton	/test	92,630.00	-	-	92,630.00	106,524.50	
	10045 add for every additional 50 ton or part thereof	/test/50 t	50,740.00	-	-	50,740.00	58,351.00	
	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	50,740.00	-	-	50,740.00	58,351.00	
	10055 Above 50 ton and upto 100 ton	/test	80,240.00	-	-	80,240.00	92,276.00	
	10060 Add for every additional 50 ton or part thereof.	/test/50 t	50,740.00	-	-	50,740.00	58,351.00	
	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	50,740.00	-	-	50,740.00	58,351.00	
	10070 above 50 ton and upto 100 ton	/test	92,630.00	-	-	92,630.00	106,524.50	
	10075 add for every additional 50 ton or part thereof	/test/50 t	50,740.00	-	-	50,740.00	58,351.00	
	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 :							

32 11 Base Courses								
32 11 13		Subgrade Modifications	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
12		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	87.80	12,498.00	278.29	12,864.09	14,793.70
	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	87.80	33.45	280.37	401.62	461.86
	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	130.35	1,152.77	420.03	1,703.15	1,958.62
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	2,082.81	611.67	205.08	2,899.56	3,334.49
	10010	Base course with 63 to 45 mm size including stone screening 13.2 mm size	cum	2,102.46	510.72	171.34	2,784.52	3,202.20
	10015	Base course with 53 to 22.4 mm size including stone screening 11.2 mm size	cum	2,043.74	510.72	171.34	2,725.80	3,134.67
		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	39.10	611.67	205.08	855.85	984.23
	10025	Base course with 63 to 45 mm size including stone screening 13.2 mm size.	cum	53.41	510.72	171.34	735.47	845.79
	10030	Base course with 53 to 22.4 mm size including stone screening 11.2 mm size.	cum	53.41	510.72	171.34	735.47	845.79
	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	21.72	1,588.46	665.61	2,275.79	2,617.16
	10040	Providing and edging with bricks of class 75 in full brick width and half brick depth including excavation, refilling and disposal	m	80.64	64.98	-	145.62	167.46

33 01 Operation And Maintenance Of Utilities								
33 01 10		Operation And Maintenance Of Water Utilities	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
58		Disinfection of Water Utility Piping Systems						
		Disinfecting CI water mains by flushing with potable water containing bleaching powder at the rate of 0.5 gms per liter of water and cleaning the same with fresh potable water including getting the sample of water from the disinfected main tested in the laboratory after third operation and repeating the operations till satisfactory result is obtained, of nominal dia.:						
	10005	80 mm	100 m	54.91	1,281.12	-	1,336.03	1,536.43
	10010	100 mm	100 m	81.87	1,663.93	-	1,745.80	2,007.67
	10015	125 mm	100 m	122.31	2,051.71	-	2,174.02	2,500.12
	10020	150 mm	100 m	182.97	2,436.41	-	2,619.38	3,012.29
	10025	200 mm	100 m	317.77	3,210.34	-	3,528.11	4,057.33
	10030	250 mm	100 m	499.75	3,954.74	-	4,454.49	5,122.66
	10035	300 mm	100 m	715.43	4,331.37	-	5,046.80	5,803.82
	10040	350 mm	100 m	971.55	4,766.51	-	5,738.06	6,598.77
	10045	400 mm	100 m	1,274.85	5,147.75	-	6,422.60	7,385.99
	10050	450 mm	100 m	1,611.85	5,595.36	-	7,207.21	8,288.29
	10055	500 mm	100 m	1,989.29	5,985.81	-	7,975.10	9,171.37
	10060	600 mm	100 m	2,858.75	6,773.41	-	9,632.16	11,076.98

33 05 Common Work Results For Utilities								
33 05 39		Concrete Pipe	UNIT	BARE COST				TOTAL INCL OHP
				Material	Labour	Equipment	TOTAL	
51		Pipe, RCC						
		Providing, laying, jointing and testing , RCC plain ended pipes of NP2 class, conforming to IS:458, with collars, jointed with stiff mixture of cement mortar 1:2 with fine sand including tarred spun yarn, complete, excluding trenching and back filling, of nominal dia. :						
	10005	100 mm	m	694.47	119.89	-	814.36	936.51
	10010	150 mm	m	750.33	143.18	-	893.51	1,027.54
	10015	250 mm	m	918.74	234.07	-	1,152.81	1,325.73
	10020	300 mm	m	1,140.17	246.52	-	1,386.69	1,594.69
	10025	450 mm	m	1,639.11	277.24	-	1,916.35	2,203.80
	10030	500 mm	m	1,984.60	297.13	-	2,281.73	2,623.99
	10035	600 mm	m	2,215.22	333.04	-	2,548.26	2,930.50
	10040	700 mm	m	2,460.72	378.05	-	2,838.77	3,264.59
	10045	800 mm	m	3,309.87	414.36	-	3,724.23	4,282.86
	10050	900 mm	m	3,946.58	492.66	-	4,439.24	5,105.13
	10055	1000 mm	m	4,743.98	620.30	-	5,364.28	6,168.92
	10060	1100 mm	m	6,480.27	749.37	-	7,229.64	8,314.09
	10065	1200 mm	m	7,773.19	953.66	-	8,726.85	10,035.88
		Providing, laying, jointing and testing, RCC, S & S pipes of NP2 class, conforming to IS:458, jointed with stiff mixture of cement mortar in 1:2 with fine sand including tarred spun yarn, complete, excluding trenching and back filling, of nominal dia.:						

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