

ABSTRACT OF COST

Name of work : Construction of Canteen at I.P. College for Woman.

S. NO.	ITEM OF CIVIL WORK	AMOUNT
1.0	Earth Work	Rs.
2.0	Concrete Work	Rs.
3.0	R.C.C. Work	Rs.
4.0	Brick Work	Rs.
5.0	Steel Work	Rs.
6.0	Flooring	Rs.
7.0	Roofing	Rs.
8.0	Finishing	Rs.
9.0	Aluminium Work	Rs.
10.0	Misc. Work	Rs.
11.0	Sanitary Installation	Rs.
12.0	Water Supply	Rs.
13.0	Drainage	Rs.
		Rs. _____

SCHEDULE OF QUANTITIES

Name of work : Construction of Canteen at I.P. College for Woman.

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
1.00	2.00	EARTH WORK				
1.01	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
	2.6.1	a) All kinds of soil	55.00	Cum		
1.02	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means 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 soil as directed, within a lead of 50 m.				
	2.8.1	a) All kinds of soil	35.00	Cum		
1.03	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	110.00	Cum		
1.04	2.27	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	16.00	Cum		

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2.00 4.00 CONCRETE WORK

2.01	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.8	a) 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	10.00	Cum		
	4.1.10	b) 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	16.00	Cum		

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
2.02	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing :				
	4.2.3	a) 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	2.00	Cum		
2.03	4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	25.00	Sqm		

3.00 5.00 R.C.C. WORK

3.01	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
		(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).				
	5.33.1	a) All works upto plinth level	20.00	Cum		
	5.33.2	b) All works above plinth level upto floor V level	35.00	Cum		

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
3.02	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	1.00	Cum		
3.03	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
	5.9.1	a) Foundations, footings, bases of columns, etc. for mass concrete	80.00	Sqm		
	5.9.3	b) Suspended floors, roofs, landings, balconies and access platform	330.00	Sqm		
	5.9.5	c) Lintels, beams, plinth beams, girders, bressumers and cantilevers	60.00	Sqm		
	5.9.4	Shelves (Cast in situ)	18.00	Sqm		
3.03	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
	5.22.6	a) Thermo-Mechanically Treated bars	2,400.00	Kg		
3.04	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
	5.22A.6	a) Thermo-Mechanically Treated bars	4,320.00	Kg		

4.00 6.00 Brick WORK

4.01	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	6.1.1	a) Cement mortar 1:4 (1 cement : 4 coarse sand)	40.00	Cum		
4.02	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	6.4.1	a) Cement mortar 1:4 (1 cement : 4 coarse sand)	42.00	Cum		

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
4.03	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	30.00	Sqm		

5.00 10.0 STEEL WORK

5.01	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	4,250.00	Kg		
5.02	10.20	Providing and fixing bolts including nuts and washers complete.	150.00	Kg		
5.03	10.6	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.				
	10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	4.00	Sqm		
5.04	10.7	Providing and fixing ball bearing for rolling shutters.	2.00	Each		
5.05	10.8	Extra for providing mechanical device chain and crank operation for operating rolling shutters.				
	10.8.1	Exceeding 10.00 sqm and upto 16.80 sqm in the area	4.00	Sqm		
5.06	10.13	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.				
	10.13.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	130.00	Kg		

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6.00 11.0 FLOORING

6.01	11.23	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with :				
	11.23.6	a) Udaipur green marble	10.00	Sqm		
6.02	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.				
	11.41.2	a) Size of Tile 600x600 mm	90.00	Sqm		
6.03	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	25.00	Sqm		
6.04	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	90.00	Sqm		
6.05	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	8.2.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble				

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
	8.2.1.1	Area of slab upto 0.50 sqm	18.00	Sqm		
6.06	8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	8.3.1	Marble work	45.00	Metre		
6.07	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	5.00	Each		

7.00 12.0 ROOFING

7.01	12.8	Providing non-asbestos high impact Polypropylene reinforced cement 6 mm thick sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	4.00	Sqm		
7.02	12.31	Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5 m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately).				
	12.31.1	a) Flat surfaces	100.00	Sqm		
7.03	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:				
		a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.				

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
		b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs				
		c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.				
		d) Finishing the surface with 20 mm thick joint less cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.				
		e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :				
	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	220.00	Sqm		
7.04	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	8.00	Each		

8.00 13.0 **FINISHING**

8.01	13.1	12 mm cement plaster of mix :				
	13.1.1	a) 1:4 (1 cement: 4 fine sand)	215.00	Sqm		
8.02	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
	13.2.1	a) 1:4 (1 cement: 4 fine sand)	170.00	Sqm		

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
8.03	13.3	20 mm cement plaster of mix :				
	13.3.1	a) 1:4 (1 cement: 4 fine sand)	110.00	Sqm		
8.04	13.16	6 mm cement plaster of mix :				
	13.16.1	a) 1:3 (1 cement : 3 fine sand)	210.00	Sqm		
8.05	13.16.1	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	155.00	Sqm		
8.06	13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :				
	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	155.00	Sqm		
8.07	13.45	Finishing walls with textured exterior paint of required shade :				
	13.45.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	330.00	Sqm		
8.08	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	13.61.1	Two or more coats on new work	180.00	Sqm		
8.09	13.39	Colour washing such as green, blue or buff to give an even shade :				
	13.39.1	a) New work (two or more coat) with a base coat of white washing with lime	485.00	Sqm		
8.10	13.44	Finishing walls with water proofing cement paint of required shade :				
	13.44.1	a) New work (Two or more coats applied @ 3.84 kg/10 sqm)	205.00	Sqm		
8.11	Analysed	Extra for making pattern over sloping roof in 20 mm cement plaster as per drawing and direction of Engineer-in-charge.	110.00	Sqm		

9.00 21.0 **ALUMINIUM WORK**

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
9.01	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
	21.1.1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	75.00	Kg		
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
	21.1.2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	40.00	Kg		
9.02	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
	21.3.2	With float glass panes of 5.50 mm thickness	40.00	Sqm		
	Analysed	Extra for toughened glass 5.50 mm thickness instead of plain glass 5.5 mm thick	4.00	Sqm		
9.03	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.				
	21.4.1	With stainless steel cover plate minimum 1.25 mm thickness	2.00	Each		

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
9.04	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
	9.96.1	300x16 mm	10.00	Each		
9.05	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
	9.97.2	250x10 mm	10.00	Each		
	9.97.5	100x10 mm	60.00	Each		
9.06	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
	9.100.1	125 mm	4.00	Each		
	9.100.2	100 mm	30.00	Each		
9.07	21.11	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer- in-charge complete.				
	21.11.2	255 X 19 mm	26.00	Each		

10.00 MISC. WORK

10.01	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	5.00	Cum		
10.02	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.				
			20.00	Cum		

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
10.03	15.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge				
	15.7.4	In cement mortar	5.00	Cum		
10.04	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :				
	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	20.00	Sqm		
10.05	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes with required fittings conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	12.41.2	110 mm diameter	32.00	Metre		

11.00 SANITARY INSTALLATION

11.01	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	2.00	Each		
11.02	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
	17.2.2	W.C. pan with ISI marked black solid plastic seat and lid	2.00	Each		

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
11.03	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :				
	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	3.00	Each		
11.04	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	17.10.1	Kitchen sink with drain board				
	17.10.1.1	510x1040 mm bowl depth 250 mm	4.00	Each		
11.05	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.28.2	Flexible pipe				
	17.28.2.1	32 mm dia	3.00	Each		
	17.28.2.2	40 mm dia	4.00	Each		
11.06	17.31	Providing and fixing 600x450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	2.00	Each		
11.07	17.35	Providing and fixing soil, waste and vent pipes including all fittings (plain or door) e.g., bends, Tee, cowls, offsets, access pieces, passovers, jointing with lead joint complete, including cutting holes in walls & floors and making good where required.:				
	17.35.1	100 mm dia				
	17.35.1.2	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	10.00	Metre		
	17.35.2	75 mm dia				
	19.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	10.00	Metre		
11.08	17.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
	17.60.1	100 mm inlet and 100 mm outlet				
	17.60.1.1	Sand cast iron S&S as per IS: 3989	6.00	Each		

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
11.09	17.65	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :				
	17.65.1	100 mm diameter pipe	10.00	Metre		
	17.65.2	75 mm diameter pipe	10.00	Metre		

12.00 WATER SUPPLY

12.01	18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall				
	18.10.1	15 mm dia nominal bore	25.00	Metre		
	18.10.2	20 mm dia. nominal bore	15.00	Metre		
12.02	18.11	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :				
	18.11.1	15 mm dia. nominal bore	25.00	Metre		
	18.11.2	20 mm dia. nominal bore	10.00	Metre		
12.03	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. - External work				
	18.12.1	15 mm dia. nominal bore	15.00	Metre		
	18.12.2	20 mm dia. nominal bore	15.00	Metre		
	18.12.3	25 mm dia. nominal bore	10.00	Metre		
12.04	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
	18.13.1	25 to 40 mm nominal bore	2.00	Each		
12.05	18.15	Providing and fixing brass bib cock of approved quality :				
	18.15.1	15 mm nominal bore	8.00	Each		
12.06	18.16	Providing and fixing brass stop cock of approved quality :				
	18.16.1	15 mm nominal bore	6.00	Each		

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
12.07	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.21.2	45 cm length				
	18.21.2.1	15 mm nominal bore	8.00	Each		
12.08	18.38	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :				
	18.38.1	15 mm dia. nominal bore	20.00	Metre		
	18.38.2	20 mm dia. nominal bore	15.00	Metre		
12.09	18.40	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :				
	18.40.1	15 mm diameter pipe	15.00	Metre		
	18.40.2	20 mm diameter pipe	15.00	Metre		
	18.40.3	25 mm diameter pipe	10.00	Metre		
12.10	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	3,000.00	Per litre		

13.00 DRAINAGE

13.01	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
	19.1.1	100 mm diameter	6.00	Metre		
	19.1.2	150 mm diameter	6.00	Metre		
13.02	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :				
	19.2.1	100 mm dia. S.W. Pipe	6.00	Metre		
	19.2.2	150 mm dia. S.W. Pipe	6.00	Metre		

Item No.	Ref. to DSR 2012	Description of Item	Total Quantity	Unit	Rate Rs.	Amount Rs.
13.03	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
	19.4.1	100 x 100 mm size P type				
	19.4.1.2	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5.00	Each		
13.04	19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal frame 15 kg) dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	3.00	Each		
13.05	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm 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 :				
	2.10.1	a) All kinds of soil				
	2.10.1.2	ii) Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	12.00	Metre		