

## SCHEDULE OF QUANTITY

### NAME OF WORK : CONSTRUCTION OF IP BLOCK AT TH KADAKKAL, KOLLAM DISTRICT

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
	<b>PART - A CIVIL WORKS</b>				
	<b>SUB HEAD - I DISMANTLING AND DEMOLISHING</b>				
1	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. In cement mortar	4.14	CUM		
2	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead : Of area 3 sq. metres and below	2.00	Each		
	<b>SUB HEAD - II EARTH WORK EXCAVATION</b>				
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil	242.00	Cum		
4-a	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. All kinds of soil.	332.00	cum		
4.b	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. All kinds of soil	5.08	cum		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
5	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.	434.43	CUM		
6	Supplying and filling in plinth with river sand / Msand under floors including watering, ramming, consolidating and dressing complete. River sand/ M sand	70.00	cum		
	<b>SUB HEAD - III - PLAIN CEMENT CONCRETE</b>				
7	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	62.00	CUM		
	<b>SUB HEAD - IV - REINFORCED CEMENT CONCRETE</b>				
	<b>DESIGN MIX CONCRETE</b>				
8	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).				
a	All works upto plinth level	106.00	cum		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
b	All works above plinth level upto floor V level	210.00	cum		
c	Add for using extra cement in the items of design mix over and above the specified cement content therein.	221.20	quintal		
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.Thermo Mechanically Treated bars	38865.00	kg		
10	Centering and shuttering including strutting, propping etc. and removal of form for				
a	Foundations, footings, bases of columns, etc. for mass concrete	325.00	sqm		
b	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	47.00	sqm		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
c	Suspended floors, roofs, landings, balconies and access platform	932.00	sqm		
d	Shelves (Cast in situ)	34.00	sqm		
e	Lintels, beams, plinth beams, girders, bressumers and cantilevers	701.00	sqm		
f	Columns, Pillars, Piers, Abutments, Posts and Struts	284.00	sqm		
g	Stairs, (excluding landings) except spiral-staircases	42.00	sqm		
11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).	24.00	sqm		
	<b>SUB HEAD V : BRICK WORK</b>				

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)	14.42	cum		
13	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 : Cement mortar 1:6 (1 cement : 6 coarse sand)	193.00	cum		
14	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. Cement mortar 1:4 (1 cement :4 coarse sand	267.00	sqm		
15	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	267.00	sqm		
	<b>SUB HEAD :VI STONE WORK</b>				
16	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	16.00	CUM		
	<b>SUB HEAD VII GRANITE WORK</b>				

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
17	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. 8.2.2 Granite of any colour and shade. Area of slab over 0.50 sqm	33.78	sqm		
18	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. Granite work	70.00	Rm		
	<b>SUB HEAD VIII: STEEL WORK</b>				
19	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. 9.48.2 Fixed to openings /wooden frames with rawl plugs screws etc.	1151.82	Kg		
20	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete	55.00	each		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
	<b>SUB HEAD IX : FLOORING</b>				
21	Providing and fixing 1st quality ceramic glazed joint free wall tiles conforming to IS: 15622 Of thickness 5MM of approved make JOHNSON, NITCO, ORIENT, , KAJARIA or approved make in all colours, shades except burgundy, bottle green, black of size 300 x 450mm 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 @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. (Basic Price of tile not less than 400/m2)	566.00	sqm		
22	Providing and laying Ceramic glazed/Antiskid joint free floor tiles of size 300x300 mm thicknes 7.5mm of 1st quality conforming to IS : 15622, of JOHNSON, NITCO, ORIENT, KAJARIA or approved make, 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.(Basic Price of tile not less than 367/m2)	81.00	sqm		
23	Providing and laying vitrified floor tiles in different sizes 10mm thickness with water absorption less than 0.08% and conforming to IS : 15622, of JOHNSON, NITCO, ORIENT, KAJARIA or 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. Size of Tile 600x600 mm. (Basic Price of tile not less than 865/m2)	888.00	sqm		
24	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). Medium shade pigment using 50% white cement 50% Grey cement	12.00	sqm		
	<b>SUB HEAD X : ROOFING</b>				

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
25	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter	107.10	Rm		
26	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length,including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete ,110 mm	120.00	each		
27	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm diameter and weighing not less than 440 grams.	14.00	each		
28	Providing and fixing on wall face unplasticised -P.V.C moulded fittings / accessories for unplasticised - Rigid P.V.C rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS 5382 leaving 10 mm gap for thermal expansion :-				
	Bend 87.5°				
a	110 mm bend.	28.00	each		
	<b>Shoe( plain)</b>				
b	110 mm shoe	14.00	each		



Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
29	Supplying and fixing Leaxan Polycarbonate sheet roofing 4.50mm multiwall bronze (Manufactured by GE Plastics India Private Ltd) over the framework using special MS extrusions of size 50x22.5mm with rubber gasket applying silicon sealant and support wherever necessary (Rate is inclusive of framework including support, painting etc). Nothing etc shall be paid on pattern of framework.	89.90	SQM		
30	<p>Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling</p> <p>using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.</p>	24.00	sqm		
31	Providing and fixing semicircular 110mm PVC pipe for gutter with iron brackets 40 x 3 mm size, bolts, nuts and washers including making necessary connections with rain water pipes complete.	46.00	Rm		
<b>SUB HEAD XI : FINISHING</b>					

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
32	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	1627.00	sqm		
33	15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) Interior walls	994.00	sqm		
34	15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) Exterior walls	830.00	sqm		
35	12 mm cement plaster finished with a floating coat of neat cement of mix : (1 cement: 4 fine sand)	94.00	sqm		
36	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	3451.00	sqm		
37	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work .	2621.00	sqm		
38	Finishing walls with Acrylic smooth exterior paint of required shade:- New work (Two or more coats applied @ 1.67 ltr/10 sqm over and including base coat of water proofing cement paint applied @ 2.2 kg/10sqm.)	924.00	sqm		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
39	French spirit polishing : Two or more coats on new works including a coat of wood filler.	10.12	sqm		
40	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :-	107.00	sqm		
	Two or more coats on new work .				
41	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	250.00	sqm		
42	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	181.00	Rm		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
	<b>SUB HEAD XII : MISCELLANEOUS</b>				
43	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer- in-charge 9.117.1 Extruded section profile size 48x40 mm	93.00	Rm		
44	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm ( $\pm 0.2$ mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm 0.2$ mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	31.00	sqm		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
	<b>SUB HEAD XIII : SANITARY INSTALLATIONS&amp; WATER SUPPLY</b>				
45	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	4.00	each		
46	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid Make:Hindware,Cera,Jaquar etc.,	7.00	each		
47	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 : White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap Make:Hindware,Cera,Jaquar etc.,	8.00	each		
48	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : Single half stall urinal with 5 litre P.V.C. automatic flushing cistern Make:Hindware,Cera,Jaquar etc.,	1.00	each		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
49	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	10.00	each		
50	Providing and fixing 600 x 450mm <b>bevelled edge mirror</b> of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	10.00	each		
51	Providing and fixing SS towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	10.00	each		
52	Providing and fixing P.V.C waste pipe for sink or wash basin, including P.V.C waste fittings complete :-	8.00	each		
	Flexible pipe :-32 mm dia.				
53	Providing and fixing PVC 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	20.00	Each		
	a)100mm inlet and 75mm outlet.				
54	Providing and jointing PVC pipes of (pressure 10 K g/cm <sup>2</sup> ) for water supply including testing of joints, concealing the pipes, & trenching & refilling wherever required etc complete.				
a	20mm PVC pipe	70.00	Rm		
b	25mm PVC pipe	70.00	Rm		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
c	32mm PVC pipe	50.00	Rm		
d	40mm PVC pipe	30.00	Rm		
55	Providing and fixing PTMT grating of approved quality and colour. Rectangular type with openable circular lid 150 mm nominal size square 100 mm diameter of the inner hinged round grating	20.00	Each		
56	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15mm nominal bore	19.00	Each		
57	Providing and fixing unplasticised rigid P.V.C pipe conforming to IS Standards(pressure 6kg/cm <sup>2</sup> ) in drainage lines including cutting and making good the walls, cutting and refilling of earth, jointing all etc complete				
a	75mm dia	30.00	Rm		
b	90mm dia	54.00	Rm		
c	110mm dia	95.00	Rm		
d	160mm dia	20.00	Rm		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
58	Providing & fixing PVC Fittings and fixtures Conforming IS specifications including cutting and making good the walls etc complete				
a	110mm dia plain elbow	15.00	each		
b	75mm dia plain elbow	10.00	each		
c	110mm dia door elbow	9.00	each		
d	75mm dia door elbow	16.00	each		
e	110mm dia plain bend	15.00	each		
f	75mm dia plain bend	14.00	each		
g	110mm dia door tee	14.00	each		
h	75mm dia door tee	14.00	each		



Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
i	110mm dia air cowl	10.00	each		
j	75mm dia air cowl	12.00	each		
k	110mm dia Y	16.00	each		
l	75mm dia offset	5.00	each		
59	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 15mm nominal bore	2.00	each		
60a	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15mm nominal bore	5.00	each		
b	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore	19.00	each		
61	Providing and fixing unplasticised P.V.C connection pipe with brass unions :- 45 cm length 15MM nominal bore	19.00	each		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
62	Providing and fixing <b>gun metal gate valve</b> with CI wheel of approved quality(screwed end) – 25mm dia nominal bore	2.00	each		
63	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 over flowpipes but without fittings and the base support for tank.	10000.00	per litre		
64	Providing and fixing ball valve (brass) of approved quality complete. High or low pressure with plastic floats 20mm nominal bore	2.00	each		
	<b>DRAINAGE</b>				
65	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 : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal 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) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	7.00	each		
66	Extra for depth for manholes Size 90x80 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2.00	Rm		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
67	Constructing soak pit 1.20x1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	5.00	each		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
	<b>SUB HEAD XIV : ALUMINIUM WORK</b>				
68 a	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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) ∴ Powder coated aluminium (minimum thickness of powder coating 50 micron) For fixed portion:	688.00	kg		
68.b	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) Powder coated aluminium (minimum thickness of powder coating 50 micron)	237.00	kg		
69	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on both sides	19.00	sqm		
70	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):				
a	float glass panes of 5.50 mm thickness	87.00	sqm		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
b	float glass panes of 4.0 mm thickness	64.00	sqm		
71	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . With toughened glass panes of 8.0 mm thickness	16.00	sqm		
72	Providing and fixing anodised aluminium grill (anodised /powder coated transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	10.00	kg		
73	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. stainless steel cover plate minimum 1.25 mm thickness	10.00	each		
74	Providing and fixing aluminium sliding door bolts, ISI marked anodised/powder coated (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	27.00	each		
	300x16 mm				

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
75	9.100 Providing and fixing aluminium handles, ISI marked, anodised /powder coated (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 :				
a	125 mm	96.00	each		
b	100mm	27.00	each		
76	Providing and fixing aluminium tower bolts, ISI marked, anodised/powder coated (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 :				
a	250 X 10 mm	21.00	each		
b	150x10mm	21.00	each		
77	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	5.00	each		
78	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete..	16.00	each		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
79	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete. Powder coated minimum thickness 50 micron aluminium	81.00	each		
80	Providing and fixing brass adjustable friction window stays of approved quality with necessary screws etc to the side hung window as per direction of engineer-in-charge complete. 250mm length	200.00	each		
81	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised /powder coated (anodic coating not less than grade AC 10 as per IS : 1868) Transparent or dyed to required colour and shade, with necessary screws etc. complete. Twin rubber stopper	5.00	each		
82	Providing and fixing frosted/mat film of thickness 25 microns self adhesive of approved colour, shade and quality with cutting as per approved design and pattern including cleaning of glass and making surface smooth for fixing of film all complete as per direction of Engineer in charge to glazed window/doors	10.00	SQM		
83	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, ( for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	334.00	kg		
	<b>WOOD WORK</b>				
84	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately).				

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
	Second class Teak wood	0.09	Cum		
85	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressedbutt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge.				
	Second class teak wood 35mm thick shutter	5.94	Sqm		
86	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :				
	Second class teak wood	5.94	Sqm		
87	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete :				
	125x85x5.5 mm (heavy type)	10.00	each		
88	Providing 40 x 5mm flat iron hold fast 40 cm long including fixing to frame with 10mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30 x 10 x 15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	12.00	Each		



Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
89	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
	250x10 mm	4.00	each		
90	Providing and fixing bright finished brass door latch with necessary screws etc. complete :				
	300x16x5 mm	2.00	Each		
91	Providing and fixing bright finished brass handles with screws etc. complete				
	125 mm	4.00	Each		
92	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	4.00	Each		
93	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	2.00	Each		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
	<b>SUB HEAD : XV WATER PROOFING</b>				
94	Providing and laying in cement concrete in kerbs,steps and the like at or near ground level etc excluding cost of centering shuttering,and finishing 1:2:4 mix (1 cement :2 coarse sand:4 graded stone aggregate 20mm nominal size )	22.00	cum		
95	Providing 12mm thick cement plaster of mix1:3 (1cement:3course sand) finished with floating coat of neat admixed with water proofing material impermo or equivalent over terrace for water proofing treatment	379.00	sqm		
96	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	98.00	sqm		
	<b>SUB HEAD XVI : SEPTIC TANK &amp; SOAK PIT</b>				
	<b>Earth Work Excavation</b>				
97	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. All kinds of soil.	215.00	cum		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
	<b>Plain Cement Concrete</b>				
98	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth :	5.00	cum		
	1 : 5 : 10 ( 1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).				
	<b>Reinforced Cement Concrete</b>				
99	Centering and shuttering including strutting, propping etc. and removal of form for				
a	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	16.00	sqm		
b	Suspended floors, roofs, landings, balconies and access platform	51.00	sqm		
100	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	19.00	cum		
	<b>Brick work</b>				
101	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	24.00	cum		
102	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. Cement mortar 1:4 (1 cement :4 coarse sand)	5.00	sqm		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
103	12 mm cement plaster finished with a floating coat of neat cement of mix :- 1 : 3 ( 1 cement : 3 fine sand ) .	111.00	sqm		
104	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	93.00	sqm		
	<b>Flooring</b>				
105	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	39.27	Sqm		
106	Providing C.I foot rests including fixing in manholes with 20 x 20 x 10 cm cement concrete blocks 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size ) as per standard design : With 20 mm diameter round bar	8.00	each		
107	Supplying and fixing C.I. cover with frame for manholes, 455 x 610 mm rectangular C.I cover ( light duty ), the weight of the cover to be not less than 23 kg. And frame not less than 15 kg	4.00	each		
108	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1.00	each		
109	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design : 100 mm diameter PVC. Pipe	35.00	Rm		

Item No	Description of Item	Quantity	Unit	Rate Rs (in figures&words)	Amount
110	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. 10.6.2 80x1.20 mm M.S. laths with 1.20 mm thick top cover	7.20	sqm		
	<b>TOTAL - PART A CIVIL WORKS</b>				