

# SUMMARY OF ESTIMATES

Yash Shah  
Scheme House

Sr. No.	Description of Item	Amount (Rs.)
1	Site Preparation and Cleaning	53,350.00
2	Civil Work	6,661,882.32
3	Carpentry and Built in Furniture	-
4	Miscellaneous Items	5,000.00
5	Electrical	1,850,000.00
6	Plumbing	538,900.00
7	Landscaping and Gardening	-
TOTAL		9,109,132.32
Contingencies @ 10%		910,913.23
Grand Total		10,020,045.55

NB: ALL WORKS SHALL BE CARRIED OUT AS PER ARCHITECT'S SPECIFICATIONS.

ALL WORKS SHALL BE CARRIED OUT AS PER APPROVED DRAWINGS ONLY

Bill of Quantities, Measurements & Specifications									
<div>Note : 1) The items given below shall be as per Section A "Earthwork, Metal Packing &amp; Subsurface Drainage" of the specifications. 2) Rate for excavation shall include dewatering during the excavation including shoring, strutting etc and keeping it dry during excavation and construction. 3) All earthwork shall be carried out as per Architect's instructions and safety norms as per relevant IS code. The rate shall include all scaffolding and measures for cordoning off areas during dismantling, providing sign boards etc. 4) All debris and scrap materials from earthwork shall be contractors property other than that which is reused for back-filling etc. and this debris and scrap materials shall be removed away from site immediately on his own. The contractor to give rebate in rates against materials and scrap / debris from such dismantled work which shall be contractor's property. 5) For all earthwork items, the contractor should carefully stack all excavated material at site as per the instructions of the Architect. All debris associated with the earthwork should however be disposed off by the Contractor. 6) The measurement of excavation shall be taken in cu.m. as per rectangular trench of bottom width of concrete multiplied by vertical depth of foundation from ground even though contractor might have excavated with sloping side/ full length trench for his convieny.</div>									
Sr. No.	Description	PLine Area / Perimeter	Height / Width	No.	Total Quantity	Unit	Rate (Rs.)	Amount (Rs.)	
For all Items in all Sections : Rate shall include transportation, loading/unloading,providing/supplying/laying/fixing/installing/ fabricating/testing/ commissioning etc on site. Rate shall also include all taxes such as VAT, excise, sales tax, octroi, etc.									
SECTION - I : Site Preparation & Cleaning									
a1	Cleaning and clearing the site of all rocks, boulders, brick-bats, stone, bushes, shrubs, etc complete, as directed by the architect for start of construction activity.						LUMP SUM	25000	
a2	Demolishing of existing strctures and pathways on the playground, as directed by the architect.	135.00	3.00		405.00		LUMP SUM	28350	7 rs. per sq. foot
TOTAL OF SECTION - I								53350.00	
SECTION - II : CIVIL WORK									
A EARTHWORK AND METAL PACKING									
a1	Surface excavation and excavation for retaining walls, basement, water tanks, effluent treatment tanks, etc. including backfilling of approved excavated materials in foundations, & behind retaining walls after completion of waterproofing etc. watering and consolidating, carting away surplus earth, including preparing the surface. (Note: All backfilling & spreading of earth shall be carried out in layers not exceeding 200mm and compacted to 90% ordinary proctor dry density.)	354.73	1.95	--	691.72	Cu.m.	286	197832.921	EXCAVATION PIT DIMENSIONS
a2	Filling in plinth and in other places with approved murum brought from outside, including watering consolidating in layers not exceeding 200mm by 8-10 tonnes road roller or other approved mechanical equipment etc. complete as directed.	247.75	0.20		49.55	Cu.m.	780	38649	PLINTH PROFILE BEYOND RAFT
a3	Anti-termite Preconstruction Treatment for Foundation : (As per IS: 6313 Part-III) (Note : Anti-termite treatment shall be carried out through specialised agency reputed in Pest Control treatment and approved by the Architect. The contractor to give 10 years guarantee on a suitable bond)	195.50		10.00	195.50	Sq.m.	195	38122.5	RAFT WALL/ ISOLATED FOOTING SURFACE AREA
a4	Providing post-constructional anti-termite treatment by drilling in holes at the junctions of walls and flooring and injecting chemical emulsion, wall spray and door frames to be drilled and sprayed complete using approved chemicals at the rate of 5 liters of emulsion concentrate of one percent concentration of CHLORPYRIFOC 2.0% EC, ISI approved conforming (IS 8944), Including treatment of wood for termites, borers, wet rots and dry rots. Covered floor area shall be measured for payment. (Ground Floor + First Floor)	428.25	--	--	428.25	Sq.m.	195	83508.75	COVERED FLOOR AREA ( GROUND + FIRST WITHOUT TERRACE)
a5	Providing, chasing, inserting/ laying Damp proof course 50 mm thick M-20 cement concrete layer and bitumen using cement with approved water proofing compound at the rate of 1Kg per 50 kg of cement etc. complete.			---	58.00	Sq.m.	364	21112	PLINTH BEAM LENGTH / LOAD BEARING FOUNDATION
TOTAL OF SUB SECTION - A								379225.171	
B CONCRETE-PLAIN & REINFORCED (PCC & RCC)									
<div>Note : 1) The items given below shall be as per Section B" Concrete-Plain &amp; Reinforced" of the specifications. 2) For small concrete on approval of Architect, weigh batched concrete as per design mix, in manually or mechanical type operated weigh batcher dial type or mechanical type of minimum capacity 650 Kgs shall be used. Weigh batcher shall be calibrated regularly.</div>									

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	3) For all major concrete pours, Contractor shall use ready mixed concrete (RMC) of Unitech Prefab Ltd. or M/s. Larsen & Toubro Ltd. approved Agencies. Only 53 grade cement shall be used in RMC. Aggregate properties and grading design mix, quantity of super plasticiser, setting time, amount of slump at the pouring site shall be got approved before its use in each major concreting.								
	4) Concrete mix proportion will be based on 50 kg. weight of cement bags delivered at the mixer.								
	5) The Contractor is entirely responsible for the design of concrete mixes. The design is however, to be approved by the Architect.								
	6) Concrete M-20/20 means concrete mix M-20 grade using maximum size of coarse aggregates 20mm.								
	7) Shuttering, form work, centering shall not be paid separately and shall conform to Section-C.								
	8) Curing compound may be permitted only for inaccessible locations.								
	9) Only River Sand should be used. Washing of sand in rotary screw type washing machines is a must.								
	10) Rates shall be inclusive of cost of Super plasticiser of approved quality and of approved dosage.								
	11) Rates shall be inclusive of providing pockets, holes, inserts, pipes, etc.								
	12) Mechanical vibrators, internal and/ or external to be used.								
	13) All defective concrete if approved by Architect, shall be repaired by the contractor at his own cost, using approved epoxy mortar or Polymer modified mortar as per Manufacturer's specifications.								
	14) The rate shall include the cost of applying 2 coats of polymer bonding agent on all surface of old or new concrete at construction joint prior to concreting against the same.								
	15) Use of fine sand with proper grading is a must.								
	16) Screening of metal -I and II for removing excessive flaky under and over size material, stone dust etc. is a must.								
	17) Only approved mould releasing agent should be used.								
	18) Cleaning of shuttering plates by mechanical buffing after every use is a must.								
	19) All concrete surfaces shall be form finished.								
	20) Where plastering is specified, concrete surfaces are required to be hacked immediately after the removal of form work as directed by the Architect wherever required. Additional rate shall not be paid to contractor for hacking.								
	21) Contractor should make arrangement for table vibrator for casting the cover blocks of required size and grade.								
	22) Rate shall be inclusive of providing cover blocks. Cover blocks shall be made of the same grade of concrete of structural member in which the blocks are to be used.								
	23) All joints in shuttering shall be sealed by use of 5mm thick compressible material gaskets and fixing agent.								
	24) Construction joint shall be minimum in numbers and their location shall be approved by the Consultant. Construction joints shall be treated properly with bonding coat of approved material to be applied at the old concrete before commencing the fresh concreting operations.								
	25) In form finish surfaces the patterns to be provided for the formwork shall be as per architects suggestions								
	26) All sack-rubbed surface shall be sack rubbed with white cement of suggested proportion as per Architects approval.								
	27) All concealed items like conduits, junction boxes, fixtures etc. shall be located as per details and locations to be approved before casting.								
	<b>Notes for Formwork:</b>								
	Note : 1) The items given below shall be as per Section C : 'Formwork' of the specifications								
	2) Contractor should submit for the Consultant's approval design and drawing for all formwork showing sizes of member including props and its foundation considering RMC by pumping								
	3) A mockup of formwork for columns, typical column-beam junction, beams should be made and only after obtaining approval of the mockup, the contractor will be allowed to proceed with the work.								
	4) All surfaces of concrete elements shall not be treated in any way unless otherwise instructed.								
	5) All concrete surfaces shall have smooth and even finish originally by themselves without any finishing or rendering. In case the Architect is not satisfied with the finish obtained, remedial measures for improving them shall be carried out by the Contractor at his cost.								
	6) Rates quoted shall be inclusive of all formwork at all levels.								
	7) Rate shall include use of 5mm thick compressible gasket materials, fixing agent, adhesive tape and mechanical buffing of shuttering plates.								
	8) Only approved mould release agent should be used.								
	9) Manual/mechanical cleaning of shutter plates after every use is a must.								
	10) The rate shall include hacking of concrete surface required to be plastered immediately after removal of formwork.								
	11) Only new steel and plywood shuttering shall be permitted for its first use at site, and its number of uses will be solely with discretion of Architect.								
	12) Providing cutouts, holes, slits, depression etc. for electrical fixtures shall not be paid separately.								
	13) Size of the panels used for exposed concrete finish areas shall be approved by the Architect.								
	14) The supporting system for platform door shall be having self alignment devices to ensure perfect line and level, and verticality of the shuttering, staging to achieve required degree of perfection.								
	15) For quick erection of shuttering and staging the system should have suitable arrangement for moving entire set in transverse as well as in longitudinal directions and rails/wheels on any suitable arrangement which will be approved by the consultant.								

Bill of Quantities, Measurements & Specifications							
<b>b1*</b>	Providing and laying Concrete M20 / 40 using RMC for all PCC works below raft slab, plinth beams, foundations, etc. including side forms if required. The rate shall be inclusive of all taxes, towards plants & machinery, labour, all leads & lifts, all floors all charges required including transportation, centering, formwork, compacting, roughening the surface if special finish is to be provided and curing etc complete.						
	a) PCC for Foundation	195.50	0.10	19.55	Cu.m.	7800.00	152490
	b) PCC for Plinth	258.00	0.10	25.80	Cu.m.	7800.00	201240
<b>b5</b>	Providing & laying M30/20, using RMC for RCC including pumping for foundation, pile caps, raft slab, column, walls, shear walls, box column, retaining walls, plinth beams, floor beams, inverted beams, slabs, staircase, drop pardis, chajja, parapets, pergolas, trench slab and beams in structural floors, loft slabs at all levels, lintel beams/vertical stiffeners etc including RCC underground water tanks, septic tanks, effluent treatment tanks, overhead water tanks etc complete. The rate shall be inclusive of all taxes, towards plants & machinery, labour, all leads & lifts, all floors all charges required including transportation, shuttering, centering, formwork as per conditions below etc. complete.				Cu.m.	8450	0
	1. Foundation			23.70	Cu.m.	8450	200265
	2. Runner Beams (Ground Floor + First Floor)			31.00	Cu.m.	8450	261950
	3. Slabs			39.00	Cu.m.	8450	329550
	4. Lintel			4.30	Cu.m.	8450	36335
	5. Sill			2.50	Cu.m.	8450	21125
	6. Chajja			2.80	Cu.m.	8450	23660
<b>b6</b>	Providing and laying concrete M25/20 using RMC for staircase on grade including finishing the surface smooth etc complete. The rate shall be inclusive of all taxes, towards plant & machinery, labour, all leads & lifts, all floors all charges required including transportation, shuttering, centering, formwork as per condition below, etc. complete.			17.20	Sq.Mt	8450	145340
<b>b7</b>	Providing & laying Concrete M20/40, using RMC, in alternate bays for 75 MM plinth protection and paving including compacting, vibrating, curing, finishing to correct line & level with the use of wooden bottom and surface finally finished with brooms as directed by Architect. Joints of and as provided in alternate bays shall be filled with bitumen etc. all complete to the satisfaction to the Architect.			90.00	Running mt	7800	702000
<b>b8</b>	Providing and constructing RCC underground water tank including excavation in all types of soil, refilling in sides of tank, trimming, dressing, leveling, stacking and disposal of surplus soil and including : i) Rubble soling 230 thk. ii) PCC, M 20/30 below raft iii) M-25/20 RCC work in raft slabs, sump base, beams, RCC walls, columns, top slabs etc. including unwrot shuttering to RC walls at all levels. iv) TMT reinforcement. v) Water proof cement plaster to inside of water tanks. vi) Box type water proofing treatment for raft and walls of UG tank. vii) Patented cement based waterproofing treatment to top of slabs. viii) 50 mm. thk. IPS to raft slab. ix) Providing and fixing cast iron manhole covers 2 nos. 600 mm dia. with locking arrangements. x) PVC water stop 150 mm dia; embedded intake and outlet pipes etc. UG tank capacity.			7800.00	Litres	6.5	50700
<b>b9</b>	Providing, erecting, fixing and commissioning Sintex or approved equivalent double layered tanks on overhead elevated pedestal as directed including scaffolding all allied plumbing, valves, stop cocks, MCGM certified water tank cap, including cleaning etc. complete as per the satisfaction of the Architect.	750 x 2 tanks		2.00		5000	10000
<b>TOTAL OF SUB SECTION - B</b>							2134655
<b>C FORMWORK</b>							
	Notes : 1) The items given below shall be as per Section C : 'Formwork' of the specifications. 2) Contractor should submit for the Consultant's approval design and drawing for all formwork showing sizes of member including props and its foundation considering RMC by pumping. 3) A mockup of formwork for columns, typical column-beam junction, beams should be made and only after obtaining approval of the mockup, the contractor will be allowed to proceed with the work. 4) All surfaces of concrete elements shall not be treated in any way unless otherwise instructed. 5) All concrete surfaces shall have smooth and even finish originally by themselves without any finishing or rendering. In case the Architect is not satisfied with the finish obtained, remedial measures for improving them shall be carried out by the Contractor at his cost. 6) Rate shall include use of 5mm thick compressible gasket materials, fixing agent, adhesive tape and mechanical buffing of shuttering plates. 7) Only approved mould release agent should be used. 8) Manual/mechanical cleaning of shutter plates after every use is a must. 9) The rate shall include hacking of concrete surface required to be plastered immediately after removal of formwork.						



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	10) Only new steel and plywood shuttering shall be permitted for its first use at site, and its number of uses will be solely with discretion of Architect.							
	11) Providing cutouts, holes, slits, depression etc. for electrical fixtures shall not be paid separately.							
	12) Size of the panels used for exposed concrete finish areas shall be approved by the Architect/ consultants.							
	13) The supporting system for platform door shall be having self alignment devices to ensure perfect line and level, and verticality of the shuttering, staging to achieve required degree of perfection.							
	14) For quick erection of shuttering and staging the system should have suitable arrangement for moving entire set in transverse as well as in longitudinal directions and rails/wheels on any suitable arrangement which will be approved by the consultant.							
<b>D REINFORCEMENT</b>								
	This item is worked out by the Structural Consultant. For the purpose of this course an approximate amount is budgeted.							
	Notes :							
	1) The items given below shall be as per Section D : 'Reinforcement' of the specifications.							
	2) Cover blocks shall be of good quality concrete M30/10 and shall be vibrated on a table vibrator to reduce the permeability.							
	3) Wherever welding of reinforcement is specified, the same shall be carried out conforming to IS:9417 or IS:2751. Welding shall be carried out by approved qualified welders only. One percent testing of welds shall be carried for all types of welds.							
	4) Overweight of the steel shall not be considered for calculating consumption and payment purpose, I.S. constant for weight of different dia. of bars shall be considered for payment as well as consumption purpose.							
	5) Column reinforcement bars are required to be lapped in the middle portion of columns as per IS 13920. Proper arrangement shall be made to support reinforcement projecting above floor level. Similarly laps within a distance of 2 D (depth of beam) or 1/4 span from the face of the column are not allowed. The overhanging bars should be properly supported. The cost of these works is deemed to have been included in the rate.							
d1*	Providing and fixing in position mild steel reinforcement of TATA / Vizag / Sail Steel of various diameters for RCC, piles, pile caps, footings, foundations, slabs, beams, columns, canopies, staircases, dowels, chajjas, lintels, pardis, copings, fins, arches etc. as per the detailed designs, drawings and schedules including cutting, welding, bending, hooking the bars, binding with GI wires and concrete cover blocks etc. complete. No separate payment for chairs, laps, wastage and binding wire will be made.							
	Slab Reinforcement	30.00	0.30	7850.00	2355.00	kg/sq.m	75.00	176625
	Beam Reinforcement	31.00	0.47	7850.00	3650.25	kg/sq.m	75.00	273768.75
	<b>TOTAL OF SUB SECTION - D</b>							450393.75
<b>E STRUCTURAL STEEL WORKS AND OTHER FABRICATION ITEMS</b>								
	This item is worked out by the Structural Consultant. For the purpose of this course an approximate amount is budgeted.							
e1	Supplying, fabricating, erecting, aligning in position, fixing, Structural Steel of TATA / Vizag / Sail Steel in all types of members (Box, Ropes, I-sections, C-sections, L-angles etc) for Columns, Beams, Truss Rafter, Purlin for roofs, lofts, stairs, mezzanines, storage racks for paraffin boxes, portals, braces, underpinning, shoring, frames etc . The rate to include cutting, anchor fasteners, bolting, welding, wastage and application of epoxy based paints (Asian make) as per manufacturer's specifications and as directed. The rate should include painting of the steel as stated in item e3 below.							
	I-Section: 160mm x 100mm x 20kg/m				3.70	Ton	104000.00	384800
e2*	Providing, fabricating, erecting and fixing at all levels structural steel of TATA / Vizag / Sail Steel in all types of members for Columns, Beams, Truss Rafter, Canopies, roof covers, purlin for roofs, lofts, mezzanines, storage racks for paraffin boxes, portals, braces, underpinning, shoring, frames, work for all structural and other purposes, including cutting edges to the required profile, bolting, welding, anchor fastening, riveting, grouting etc. complete in all respects, including epoxy painting as specified in e3.				4.20	Ton	104000.00	436800
e3	Painting of Steel Work							
	Supplying painting and other materials and labour required for painting of structural steel as detailed below :							
	i) Surface preparation :							
	Mechanical cleaning, removing loose rust/scale using hard tools, power tools, use of aromatic solvents to remove soil / grease present and to ensure a clean and dry surface before priming.							
	ii) Primer:							
	Single coat of Epoxy resin and zinc phosphate of total dry film thickness of 25 microns							
	iii) Finish-Coat 1 :							
	Single coat of high build chlorinated rubber medium with micaceous iron oxide of total dry film thickness of 75 microns.							
	iv) Finish Coat 2 & 3 :							
	Two coats of plastic chlorinated rubber medium suitably pigmented of 25 microns dry film thick each. Total DFT of paint system shall not be less than 200 micron.							
e4	Providing fabrications, erecting and fixing S.S. Railing							
	i) S.S. Pole Made in 16 gauge 50 mm. Diameter IS approved SS 304 pipe with a ornamental SS ring at the bottom ends S.S. top at apex for assembly of upper Hand hold pipe whole unit provided with mirror finish. (For a height of 1.2M).				33.00	running mt.	500.00	16500

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	<b>TOTAL OF SUB SECTION - E</b>						1046640.9
<b>F</b>	<b>ROOFING</b>						
	Note : Measurement shall be taken for complete laid roof in square meter. Overlaps will not be paid extra. The rate shall include all the material, labour bolts, nut, washers and tools and plants etc. complete.						
	Steel Framed Roofing System						
<b>f1</b>	Providing and fixing of Steel Framed Roofing System. External Sheet: Klippon / Steel lock AZ 150 SMP colour coated Galvalume in 0.58mm TCT and including screws and clips. Internal Sheet: Hi-Rib / Hispan AZ 150 Bare Galvalume/ SMP colour coated Galvalume in 0.47 mm TCT including screws. Insulation: Supply and Laying of 50mm thick log fiber resin bonded fiberglass roll insulation 16kg/m3 density to be fixed between internal and external sheets. Sub Girt: G. I. Purlins 40 x 50 x 40 mm x 16G (1.6mm) galvanised steel fixed to purlins / girt with self drilling fasteners at max. 500mm centers.			318.70	SQ. MT	1000.00	318700
<b>f2</b>	Providing and fixing of flashing of all sizes for f1 above. This item is worked out by the Consultant. For the purpose of this course an approximate amount is budgeted.						
	<b>TOTAL OF SUB SECTION - F</b>						318700
<b>G</b>	<b>MASONRY WORK</b>						
	Note : 1) The items given below shall be as per 'Masonry Work' of the specifications. 2) Rate should be inclusive of scaffolding, curing and also dewatering & keeping surface dry during construction. 3) Cement for manufacturing concrete blocks to be provided by Contractor. 4) Only self supporting scaffolding will be allowed, no holes in masonry would be permitted. 5) Contractor will be responsible for making good all the surfaces of brick/block masonry wall in its original form wherever in chasing the wall is done for providing service lines like electrical, telecommunication and water supply and plumbing etc. 6) Factory including block making machine for manufacturing of concrete blocks shall be approved by Architect- in -charge. 7) The cement for block masonry shall conform to the requirement of minimum cement requirement for P.C.C. of concrete specifications. 8) Required quantity of concrete blocks are to be manufactured with grooves to accommodate the conduit pipes/water pipes etc. The grooves should be staggered on both sides. 9) The rate for concrete block masonry walls shall be inclusive of producing half blocks and odd sized blocks to suit the construction. 10) Mortars for all masonry work shall be mixed in an approved mortar mixer or concrete mixer. 11) Hand mixing of mortar will not be allowed. 12) Only river sand and 43 grade cement shall be used. 13) Washing of sand in rotary screw type washing machines is a must. 14) Bricks used shall be of first class and shall be of regular in shape and their edges should be sharp and shall be free from crack. Brick shall be fully soaked in clean water by submerging in a tank for a period of 12 hours immediately before use. 15) Contractor will be responsible for making good all the surfaces of brick/block masonry wall in its original form wherever in chasing the wall is done for providing service lines like electrical, telecommunication and water supply and plumbing etc.						
<b>g1</b>	Providing and laying brick (first class) masonry wall in 1:6 C:M, above plinth or at all levels including for odd shaped walls, brick fins, columns, etc. including striking joints, raking out joints, scaffolding, curing etc. complete. (Min. cement content 1.5 Bag/cu.m.). (ground floor)						
	a) 460mm thick brick			125.40	Cu.m.	1820.00	228228
	Providing and laying brick (first class) Brick Pier			1.20	Cu.m.	1820.00	2184
				126.60	Cu.m.		230412
<b>g2</b>	Providing and laying brick (first class) masonry wall in 1:6 C:M, above plinth or at all levels including for odd shaped walls, brick fins, columns, etc. including striking joints, raking out joints, scaffolding, curing etc. complete. (Min. cement content 1.5 Bag/cu.m.). (first floor)						
	a) 345mm thick brick			89.70	Cu.m.	1820.00	163254
<b>g3</b>	Providing and laying brick (first class) masonry wall in 1:6 C:M, for foundation.						
	a) 460mm thick brick			85.00	Cu.m.	1820.00	154700
	a) 660mm thick brick			32.40	Cu.m.	1820.00	58968
	a) 860mm thick brick			41.40	Cu.m.	1820.00	75348
	<b>TOTAL OF SUB SECTION - G</b>						682682
<b>H</b>	<b>PLASTERING, PAINTING</b>						

C:M Concrete: Mortar

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	Notes :								
	1) The items given below shall be as per 'Plastering of the specifications.								
	2) Scaffolding for plastering shall be of self supporting type. Holes will not be allowed, to be made in the masonry or RCC work for anchoring the scaffolding.								
	3) Only River Sand should be used. However washing of sand in rotary screw type washing machines is a must.								
	4) Mortar for plastering work shall be machine mixed in a mortar mixer or concrete mixer. Hand mixing of mortar will not be allowed.								
	5) The rate for plastering shall also include providing and mixing/ applying an approved bonding agent as per direction of Architect-in- charge, and also applying approved hack-aid on surface receiving plaster.								
	6) Only 43 grade cement shall be used.								
	7) Rate should be inclusive of scaffolding and curing shall be started as soon as the plaster has hardened sufficiently not to be damaged when watered. The plaster shall be kept wet for at least 10 days.								
<b>h1*</b>	Providing 12mm thick Internal cement plaster in two coats in cement mortar 1:4 with / without neeru, finished smooth for all RCC/brick block masonry work including curing, and scaffolding etc complete.					687.00		390.00	267930
<b>h2</b>	Providing sand face plaster externally in two coats using approved screened sand in all position including providing base coat of 15 mm thick in cement mortar 1:4 mixing approved water proof compound at the rate of 1 kg / 50 kg of cement and curing the same for not less than two weeks and keeping the surface of base coat rough to receive the sand faced treatment 8 mm thick in cement mortar 1:4 and finishing the surface by taking out grains and curing for 14 days including preparing surface, watering and scaffolding etc. complete.					537.00		780.00	418860
<b>h3</b>	Providing & applying a continuous cement plaster drip mould of size 50mm wide and 15mm thick under RCC pardi, chajja and around window openings at all levels including necessary scaffolding, staging etc. and curing complete.					23.00		200.00	4600
<b>TOTAL OF SUB SECTION - H</b>									691390
<b>J PAINTING</b>									
	Notes :								
	1) The items given below shall be as per 'Painting of the specifications.								
	2) Scaffolding for Painting shall be of self supporting type. Holes will not be allowed, to be made in the masonry or RCC work for anchoring the scaffolding.								
	3) The brands of the Paint shall be specified and readymade paint of required shade should be used.								
	4) The surface shall be made perfectly smooth by rubbing with sand paper of different grades. .								
	5) All holes and open joints should be filled with strong putty or with a mixture of glue and plaster of paris and smoothened by rubbing with sand paper.								
	6) In steel work , all scales, dirt, suppliers delivery mark, oil, grease etc shall be removed with sand paper before painting. Special care shall be taken for cleaning the corners								
	7) Each coats shall be allowed to dry up perfectly before the succeeding coat is laid over it.								
	8) Rate should be inclusive of scaffolding, curing and also dewatering & keeping surface dry during construction.								
<b>j1*</b>	Providing and applying 3 coats over a coat of primer, of oil bound distemper of approved shade and of approved make over concrete / plastered surfaces including preparing of the surfaces, scaffolding etc. complete in all respects.					1224.00		170.00	208080
<b>j2*</b>	Providing and applying acrylic emulsion paint of approved quality, finish, colour and shade to old and new surfaces in three coats including preparing the surfaces, applying primer, putty, etc. complete.					1224.00		185.00	226440
<b>TOTAL OF SUB SECTION - J</b>									434520
<b>K FLOORING &amp; PAVING &amp; SKIRTING</b>									
	Notes :								
	1) The items given below shall be as per 'Flooring' of the specifications.								
	2) At least 6 samples for all finishing items of work, from different approved sources shall be submitted before starting the work for approval. Architect in charge decision regarding the shade, quality and the source is final. All like materials of flooring, cladding, etc to be from same batch as per approved sample.								
	3) Rate shall be inclusive of all exposed stone / tile edges to be chamfered, hand polished and moulded as directed.								
	4) Rates for vertical cladding in stone of thickness from 6mm to 25mm shall include exposed right angular corner joints finished and edges polished and moulded as per Architect's instruction, with cutting 6 mm grooves and also edge preparation to suit corner angles.								
	5) Skirting/dado/cladding, because of varying height will be measured and paid on square metre basis instead of on running metre basis.								
	6) The rate for flooring/cladding should be inclusive of bedding/ back coat as specified. The thickness of mortar bedding or back coat specified is minimum. This thickness will vary according to the thickness of flooring or cladding material so as to suit the specified level or line. The Contractor shall be responsible for proper bonding between backing coat & masonry work or RCC work and his rate shall be inclusive of providing and applying approved bonding agent.								

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	7) For all vertical cladding, an approved chemical adhesive for tiles as per manufacturer's instructions shall be used and the rates quoted shall be inclusive of the cost of this adhesive, for a thickness 3mm to 4mm.						
	8) Unless otherwise specified, all sizes to be in metric system.						
	9) Scaffolding for external cladding shall be of self supporting type. Holes will not be allowed to be made in the masonry or RCC work for anchoring the scaffolding.						
	10) The rate for vertical cladding should also include the work on isolated columns, chamfers, etc.						
	11) No separate payment will be made for providing and fixing, odd sized tiles of any shape and size to suit consultant requirement.						
	12) White/Coloured cement with matching pigments or Johnson BAL grout with appropriate colour shall be provided by Contractor at his cost.						
	13) The Contractor shall provide suitable supports for supporting the cladding tiles and remove it only after the tiles have firmly adhered to its location.						
	14) Edges of cladding tiles fixed on the corners of the columns and walls should be polished as per directive of Architect, or as indicated in the drawings.						
	15) The maximum thickness of the paste prepared by using tile adhesive and applied on the wall and column surfaces should not be more than 3mm. Contractor shall have no extra claims on account of increase in the thickness of the paste beyond maximum thickness as specified above due to faulty workmanship or any other reason.						
	16) Mortar required for bedding/ back coat shall be mixed mechanically in mortar mill. Only river sand shall be used in the mortar.						
	17) All fixtures, electrical points, lights etc to be alighted with tiling, grooves and pattern, flush with the wall face as per details and drawings. A mockup for the same shall be got approved from Architect.						
	18) The contractors are required to study drawings carefully to understand fixing details of flooring, skirting, cladding etc, to keep required grooves between different finishes at door and window locations flooring and skirting junction, wall and ceiling junction etc to match flush line i. e. vertical plane of wall and skirting etc.						
	19) Rate shall be inclusive of cost of scaffolding, grouting, curing, final polishing by non-slip wax polish and cleaning of surfaces and also dewatering & keeping surface dry during construction.						
	20) A sample/ mock up of flooring, cladding, etc to be got approved from, Architect.						
	21) All additional grooves to be provided in vertical, horizontal and direction as shown in detailed drawings or as directed.						
	22) To make wall cladding surface and skirting surface flush, wall at skirting level shall be required to recess inside as per fixing details. The necessary recesses in RCC wall etc shall be taken at the time of construction itself.						
	23) Only 43 grade cement shall be used.						
<b>k1</b>	Providing and laying 25mm thick hand cut and mirror machine polished <b>Kota stone flooring for Plinths</b> , square 300mm x 300mm finished size and of approved colour and shade in smaller patches for repair or in larger areas including 20mm thick 1:2 lime mortar bedding or 1:6 cement mortar bedding, to be compacted properly by suitable method as approved by the Architect, before laying shahabad stone in position. Joints finished with neat cement slurry, width of joint shall be between 1.0mm to 1.50mm laying as per design, including 3 coats of machine polishing after laying, curing, cleaning complete as directed.				--	--	SQ.MT
	a) Ground Floor		189.75		350.00	66412.5	SQ.MT
	b) First Floor		122.30		350.00	42805	SQ.MT
<b>k2</b>	Providing and laying 25mm thick hand cut and mirror machine polished <b>green kotah stone flooring for midlanding</b> , square 600mm x 600mm finished size and of approved colour and shade in smaller patches for repair or in larger areas including 20mm thick 1:2 lime mortar bedding or 1:6 cement mortar bedding, to be compacted properly by suitable method as approved by the Architect, before laying Kotah stone in position. Joints finished with neat cement slurry, width of joint shall be between 1.0mm to 1.50mm laying as per design, including 3 coats of machine polishing after laying, curing, cleaning complete as directed.				--	--	SQ.MT
	a) Ground floor		2.70		1300.00	3510	SQ.MT
<b>k3</b>	Same as item k2 above but for <b>risers and treads</b> with moulding for nosing, anti skid grooves etc. complete.		16.10		--	260.00	4186
							SQ.MT
<b>k4</b>	-Do- same as in item No.k2 above but for <b>dado of height 1500</b> , mirror polished and machine cut <b>5mm thick kotah stone 300 x 300 mm</b> , and size to match the joints in flooring, etc complete.		82.70		260.00	21502	SQ. MT
<b>k5</b>	Providing and fixing <b>anti - skid vitrified tiles of 300mm x 300 mm</b> and 10 mm thickness (Santron) grey colour for <b>toilet blocks and kitchen</b> as directed including 15mm thick backing coat plastering 1:4 cement mortar, fixing with adhesives as specified, joints filled with white cement paste or of approved colour grouting materials including curing, scaffolding etc. complete. (Overall tile variation allowance + 1.0 mm.) (Base price of tile Rs.500 / Sq m.)		24.60		--	1950.00	47970
							SQ.MT
<b>k6</b>	-Do- same as in item No.k1 above but for <b>skirting</b> of height 100mm, mirror polished and machine cut 20mm thick shahabad stone, and size to match the joints in flooring, etc complete.		22.90	SQ. MT	260.00	5954	R. MT/ SQ. MT
	<b>TOTAL OF SUB SECTION - K</b>					192339.5	
<b>M</b>	<b>DOORS, WINDOWS AND PARTITIONS</b>						

Bill of Quantities, Measurements & Specifications								
	Notes:							
	1) Carpentry and Joinery, Timber, Steel casement, Aluminum Doors Windows, skylights openable, sliding windows, rolling shutters and polycarbonate sheet, curtain walls, etc.							
	2) For all aluminum works, the contractor shall submit shop drawing for each item of work indicating the section of aluminum, its weight and joinery detail and total weight of window/door/partition walls etc. Wherever possible riveting shall be resorted to for connection. Alternatively hot dipped galvanized pinheaded sheet metal/brass, screws could be used. No mild steel without hot dipped galvanizing shall be used for any fastenings, etc.							
	3) The rates shall not be paid separately for Aluminum sections used on weight basis.							
	4) The rate shall be inclusive of providing & fixing glass panels includes cost of all types of fixtures and fastenings made of any materials, neoprene rubber gaskets, screws, etc.							
	5) Contractor shall submit samples of assembly sections from different manufacturer's for approval. Architect decision shall be final.							
	6) All joints between civil work and aluminum frames shall be sealed and made air tight by applying Silicone sealant or equivalent as approved at Contractor's cost.							
	7) Rates for repairs as well as providing and fixing of new doors, windows, sky light, rolling shutters, etc. in this section shall be inclusive of all the items of hardware / fittings and no extra shall be paid to the contractor towards the cost of hardware / fittings.							
	8) All Hardware should be as per samples approved by Architect. Providing and fixing following hardware items in oxidized brass (unless otherwise stated) including, fixing with appropriate screws and fasteners in brass/ stainless steel metal screws (Nettlefold or equivalent) wherever specified etc of approved make type and thickness :							
	9) Providing and fixing the hardware complete in all respects with necessary pins, plates, screws etc (All fittings & fixtures shall be of Heavy duty brass of first quality)							
	10) All hardware and hinges shall be of palladium or approved equivalent brand, all other hardware shall be of Dorma or approved equivalent brand.							
	11) Hinges : Railway type heavy duty hinges in brass oxidized with stainless steel pins of diameter not less than 4mm and leaf thickness not less than 4mm (125mm x 65mm x 4mm to 300 mm x 65 mm x 4 mm)							
	12) Hinges: Parliamentary type heavy duty hinges 5mm thick brass oxidized.							
	13) Tower bolts having bolt dia of 10mm in brass oxidized, in brass body 600mm long etc complete.							
	14) Door handles. 'Dorma' TGD135025S pull handle, 25 mm dia, 350mm long or 'DORMA' TG9155 or matching with existing handle as specified and approved by the Architect.							
	15) Brass oxidized Baby latches, 75mm long with 25mmx8mm thick bolt complete with knob, Vacant / Engaged etc as per approved samples. Brass aldrops shall match existing original aldrops in the building and shall be reused or fabricated to match the original.							
	16) Concealed type hydraulic door closer or open door closer of Dorma or equivalent brand with Dorma door stopper, spring loaded with rubber bush and foot release.							
	17) Plain Mortice locks 6 levers Latch Bolt of Godrej make equivalent with brass body and chrome plated flat plate to edge of door including fixing to timber or aluminium shutter frames etc complete.							
	18) Same as above item (16) but with dead lock.							
	19) 3mm thick SS kick/push plate fixed with SS screws of 150-400 mm depth. (CP brass domical head)							
	20) Door buffer with rubber/PVC bush shutter or wall mounted.							
	21) Providing and fixing and repair rates will also be inclusive aldrops, handles stopper etc. all complete.							
m1	D5 - Single leaf hinged sunmica door	1.20	2.20	19	50.16	SQ. MT	16000.00	35200
	Providing and fixing 1st class teakwood door frames (BTC) of all sizes including making single or double rebates for shutters as per drawing, 6 Fischer Universal Frame fixing FUR 10 x 135T / FUR 10 x 150 T or equivalent fastener instead of hold fast for fixing frames to concrete members or masonry walls applying solignum on timber surface in contact with masonry / concrete and Duco Paint or polish of approved colour and make, including moulded architrave etc. complete.							
m2	W1 - Teakwood Openable Panels Bay Window							
	Providing fabricating and fixing in position colour anodised extruded teakwood sections Jindal or equivalent make for windows/ ventilators, side hung openable/fixed comprising of outer frame (0.35 kg/r.m.), shutter frame (0.50 kg/R.m.), shutter --(0.40 kg/R.m.), mullion for outer frame (0.55 kg/R.m.), locking handles and pull handle for each shutter, one pair S.S. friction hinges for each shutter and 5 mm thick clear float glass Modi or wired glass or equivalent with neoprene/rubber gasket with hinges, locking arrangement and wooden encasement wherever necessary including masking of window sills before completion of work, demasking after completion, cleaning, rate to include colour anodising all aluminium sections to a thickness of anodic film not less than 20microns etc. complete as directed.	2.20	4.00	5	44.00	SQ.MT	6000.00	24000
	W2 - Teakwood Non-Openable Panel Window							
	Providing fabricating and fixing in position colour anodised extruded teakwood sections Jindal or equivalent make for windows/ ventilators, fixed comprising of outer frame (0.35 kg/r.m.), mullion for outer frame (0.55 kg/R.m.), 5 mm thick clear float glass Modi or wired glass or equivalent with neoprene/rubber gasket, locking arrangement and wooden encasement wherever necessary including masking of window sills before completion of work, demasking after completion, cleaning, rate to include colour anodising all aluminium sections to a thickness of anodic film not less than 20microns etc. complete as directed.	3.60	1.20	3	12.96	SQ.MT	3500.00	4200
	W3 - Teakwood Openable Three Panel Window							

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	Providing fabricating and fixing in position colour anodised extruded teakwood sections Jindal or equivalent make for windows/ ventilators, side hung openable comprising of outer frame (0.35 kg/r.m.), shutter frame (0.50 kg/R.m.), shutter –(0.40 kg/R.m.), mullion for outer frame (0.55 kg/R.m.), locking handles and pull handle for each shutter, one pair S.S. friction hinges for each shutter and 5 mm thick clear float glass Modi or wired glass or equivalent with neoprene/rubber gasket with hinges, locking arrangement and wooden encasement wherever necessary including masking of window sills before completion of work, demasking after completion, cleaning, rate to include colour anodising all aluminium sections to a thickness of anodic film not less than 20microns etc. complete as directed.	2.40	1.20	6	17.28	SQ.MT	6000.00	7200
	W4 - Teakwood Openable Two Panel Window							
	Providing fabricating and fixing in position colour anodised extruded teakwood sections Jindal or equivalent make for windows/ ventilators, side hung openable comprising of outer frame (0.35 kg/r.m.), shutter frame (0.50 kg/R.m.), shutter –(0.40 kg/R.m.), mullion for outer frame (0.55 kg/R.m.), locking handles and pull handle for each shutter, one pair S.S. friction hinges for each shutter and 5 mm thick clear float glass Modi or wired glass or equivalent with neoprene/rubber gasket with hinges, locking arrangement and wooden encasement wherever necessary including masking of window sills before completion of work, demasking after completion, cleaning, rate to include colour anodising all aluminium sections to a thickness of anodic film not less than 20microns etc. complete as directed.	1.30	1.00	3	3.90	SQ.MT	6000.00	6000
	W5 - Teakwood Openable Full Height Louvered Window							
	Providing and fixing teakwood window frames along the edge of 10 mm thick WPC orientable 7 panel louvered window	3.00		3.20	9.60	SQ. MT	25000.00	80000
	<b>TOTAL OF SUB SECTION - M</b>							156600
	<b>N WATERPROOFING</b>							
	Notes: 1) The contractor will give a 10 years guarantee of the work undertaken on Rs.100/- Stamp paper on the approved format duly registered. 2) Ten percent amount of value of works will be retained for the period of five years from the date of actual completion of the work, will be released progressively at four percent after two years subject to attending any rectification of defects and balance amounts by the end of five years. 3) All work to be done through specialist waterproofing and structural repair agencies shall be undertaken only on the approval of the Architect.							
n1*	Providing and applying 70mm to 75mm thick proprietary brand cement based waterproofing (box type) for <b>bottom RCC raft slab and sides of RCC walls of water tanks</b> , septic tanks, effluent treatment tanks, etc, including providing leak proof treatment by injection grouting to concrete members at 1.0m centres in both directions and also at all construction joints, and providing and fixing 20mm to 25mm thick rough Shahabad stone or other approved stone tiles set in 20mm thick 1:3 waterproof cement mortar and finishing the by laying/ plastering, with 20-30 mm thick C:M in 1:3 with waterproof compound (Contractor to give complete specifications for waterproofing system he propose to carry out)				20.00	SQ. MT	1400.00	28000
n2	Providing and laying waterproofing in <b>W.C and bath room including B.B. coba</b> in all position consisting of specialised approved waterproofing compound and material as per specifications with all lead and lift.				136.54	SQ. MT	900.00	122886
n4	<b>Water Proofing Chajja</b> Providing and applying waterproofing treatment over chajja using proprietary cement based system like India Waterproofing using brickbats of 50 mm or metal no.2, average thickness of treatment 50 mm, finished with smooth cement finish with false tile marks, including breaking/removing existing water proofing and carting away the debris etc. complete.				26.50	SQ. MT	900.00	23850
n5	<b>Tile joint filling</b> Providing and filling cement based tile joint sealing compound (Johnson Bal Grout or equivalent) in bath / WC / toilet / flooring tiles including raking out old loose jointing material, curing etc. complete.						25.00	0
n6	Providing and fixing <b>Lead Flashing 750 mm over Chajja</b> shall be housed approximately 300mm above chajja in a mortar joint of adjoining masonry wall, this sheet ct shall be sloping outwards. Fastening down. – The sheets, shall be fastened with the best SS or Brass screws/ bolts and lead washers Allen's, Fisher or other approved fastenings as directed by the Conservation Architect. The lead sheeting shall be good milled lead not less than 10 Kg/Sq.m bent to the shape fastened into the wall groove 20 mm, with brass/ss wall hooks with joints at right angles to the flow by a drip with a proper lap, if levels permit, or by 75mm joints of folded lead.						2600.00	0
	<b>TOTAL OF SUB SECTION - N</b>							174736
	<b>TOTAL OF SECTION - II</b>							6661882.321
	<b>SECTION - IV : MISC.</b>							

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	Notes :						
	1) Rate shall include minor civil work, scaffolding, electrical works, dismantling, lashing cost, steel items, etc.						
	2) The quoted price shall be inclusive of central excise duty, VAT, octroi and service tax and all other applicable taxes. This quotation shall not be subject to price variation cost.						
	3) The contractor shall make necessary arrangements to provide suitable lockable weather proof storage space for the materials and shall also stack the existing dismantled material in a safe secure place for the disposal of the municipal authorities.						
	4) The contractor shall include in the quotation 60 months free maintenance, which will be commenced from the date of completion of project.						
	5) The cost shall be inclusive of all preparatory work and no extra cost will be provided towards this item.						
	7) The rate shall be inclusive of providing & fixing glass panels includes cost of all types of fixtures and fastenings made of any materials, neoprene rubber gaskets, screws, etc.						
	6) For all works in this section as specified by the conservation architect, the contractor shall submit shop drawing for each item of work indicating the sections materials, its joinery detail etc. Wherever possible wooden pins shall be resorted to for connection. Alternatively stainless steel/brass, screws/bolts could be used. No other nails / screws shall be used for any fastenings, etc.						
	8) Contractor shall submit samples of assembly sections from different manufacturer's for approval. Architect decision shall be final.						
	9) All joints between civil work and timber frames shall be sealed and made air tight by applying Silicone sealant or equivalent as approved at Contractor's cost.						
1	Fabrication and installation of Information Sign as specified in the drawings.						
a)	Providing & fixing in position <b>signage board</b> in aluminium extruded brown anodized section with letters in vinyl on both sides covered with acrylic sheet and as per approved sample by Architect fixing as directed			1.00	5000.00	5000	
	<b>TOTAL OF SECTION - IV</b>					5000	
<b>SECTION - V : ELECTRICAL</b>							All visible light fixtures, fans, HVAC units etc including all the wiring, conduiting, connections and all other items required are included in an approximate rate/per sqmt. For the purpose of this course, it is assumed as Rs 2500/sqmt.
				740.00	2500.00	1850000	
	This item is worked out by the Electrical Consultant. For the purpose of this course an approximate amount is budgeted.						
1	<b>EARTHING</b>						
a	Supply, Installation, Testing and Commissioning of Earthing station as per IS 3043 consisting of 40 mm G.I.3000mm long pipe supplied with funnel at top including salt charcoal, masonry chamber, test link box, hardware including excavation and masonry work with cast iron cover for the chamber.						
2	<b>EARTHING STRIPS/CONDUCTOR</b>						
	Supply & Laying of following sizes of strips & wires from earthing chamber/Grid to the electrical equipment & terminating the same. The portion of the strip under ground shall be laid at a depth of 600 mm and on surface shall be fixed with spacers & clamps.& also on Tray. Excavation & all civil work to be included.						
a	25 mm x 3 mm G.I. strip for Distribution Board(First Distribution Board in a cluster of Distribution Boards.)						
b	8 SWG G.I. Earthing wire for Lighting & Power Distribution Board.						
3	<b>METER</b>						
a	Supply, Installation, testing and commissioning of 3 phase energy meter suitable for unbalance load and including necessary cutout and jumper wires etc complete as per supply company's requirement.						
b	Supply, Installation, testing and commissioning of TPN MCB 16 A and including necessary cutout and jumper wires etc complete as per supply company's requirement.						
c	Supply, Installation, testing and commissioning of TPN MCB 40 A and including necessary cutout and jumper wires etc complete as per supply company's requirement.						
d	Supply, Installation, testing and commissioning of TPN MCB32 A and including necessary cutout and jumper wires etc complete as per supply company's requirement.						
4	<b>DISTRIBUTION BOARD</b>						
	Supply & Installation of standard manufacturers Distribution Board for Lighting. It shall be a standard Board with double door & suitable for recess mounting & shall be as follows. Scope includes mounting arrangement including necessary steel, hardware etc.Wires in D.B. to be properly dressed with button tape and with lugs, labels etc.						
a	Incomer40A TPN MCB- 1No. 40 A,30 mA, 2P, RCBO - 3 Nos Outgoing 6/10A SP MCB -24 Nos. (LDB)						
5	<b>CABLES &amp; TERMINATIONS</b>						
	Supply , Installation ,Testing & Commissioning of PVC Armoured Cable fixed to walls, Ceilings with clamps, spacers saddles or laid in ready made trench or tied to cables tray with cable ties, tags etc. as follows. 1100V grade as per I.S. Installation ,Testing & Commissioning of cables (on walls, trays) PVC insulated, 1100V grade, steel armored as per I.S.1554 with latest amendment including spacers, saddles, tags, etc.The cables to be properly dressed.						
a	4C x 16 Sq.mm.AL AYFY						
b	3C x 10 Sq.mm.AL AYFY						

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c	4C x 10 Sq.mm.AYFY								
d	3C x 4 Sq.mm.AYFY								
e	3C x 6 Sq.mm.AYFY								
f	3C x 2.5 Sq.mm.AYFY								
6	<b>TERMINATION OF CABLE</b>								
	Termination of cables with Heavy duty Siemens type glands & lugs. Lugs used should be Copper for copper cables & Aluminium for aluminium cable. Scope to include all material & labour including proper tools, Insulation tape.								
a	4C x 16 Sq.mm.AL AYFY								
b	3C x 10 Sq.mm.AL AYFY								
c	4C x 10 Sq.mm.AYFY								
d	3C x 4 Sq.mm.AYFY								
e	3C x 6 Sq.mm.AYFY								
f	3C x 2.5 Sq.mm.AYFY								
7	<b>POINT WIRING</b>								
	Point wiring for light, bell point. Scope to include circuit Wiring for lighting & the light switchboard with switches & further wiring to light points. The switchboard shall be recess mounted/surface mounted of G.I standard as per the supplier. The point Wiring shall consist of 3 x 1.5 Sq. mm copper wire, PVC insulated, 1100V grade in PVC conduit/ PVC casing capping. The wires & conduits shall run from the switchboard to the individual point & circuit wiring shall be of 3 x 2.5mm2 copper wire from distribution board to the switch board. Modular plate type switches to be used 6A Switch Socket on switch board to be included. In majority of the cases the lights are group switched from the Distribution Board in which case the wire shall be 3 x 2.5 mm2. All wires shall be FRLS.								
a.i	Primary Light Point wiring of average length up to 5 meters length of wire.								
a.ii	Primary Light Point wiring of average length up to 5.5 to 10 meters length of wire								
a.iii	Primary Light Point wiring of average length up to 10.5 to 15 meters length of wire;								
a.iv	Primary Light Point wiring of average length up to 15.5 to 20 meters length of wire;								
b.i	SECONDARY LIGHT POINT (First Light to second light point. Up to 5 meters of length of wire 3x 1.5 sq. mm wires								
b.ii	SECONDARY LIGHT POINT (First Light to second light point. Up to 5.5 to 10 meters of length of wire 3x 1.5 sq. mm wires								
b.iii	SECONDARY LIGHT POINT (First Light to second light point. Up to 10.5 to 15 meters of length of wire 3x 1.5 sq. mm wires								
b.iv	SECONDARY LIGHT POINT (First Light to second light point. Up to 15.5 to 20 meters of length of wire 3x 1.5 sq. mm wires								
ci	Fan point wiring shall be same as Primary light point point with individual control. Wire of size 3x1.5sq. mm size shall run from the switch board to the fan point through PVC conduit/ PVC casing capping. The circuit from the DB to the switch board shall be 3x2.5sq. mm wires. Space for regulator to be provided in the switch board. Up to 5 Meters of length of wire								
cii	Fan Point wiring wiring length 5.5 to 10 meter length								
ciii	Fan Point wiring wiring length 10.5 to 15 meter length								
civ	Fan Point wiring wiring length 15.5 to 20 meter length								
d	Exhaust fan/ Wall Fanpoints wiring shall be same as Primary light point with individual control & 6A socket & top @ the fan point. Wire of size 3 x 1.5 mm2 size shall run from the Switch Board to the fan point through conduit .The circuit from the D.B. to the Switch Board. with 3 x 2.5 mm2 wire								
ei	Point wiring for 6 Amp switch socket point. Scope to include running of 3x 2.5mm2 copper wire, PVC insulated, 1100V grade in PVC conduit. Wires to be run from the Power Distribution board to the Individual sockets upto 4 sockets can be looped on one circuit. Workstation. Raw power. All wires shall be FRLS Wiring length up to 5 meters .								
eii	6 A socket point wiring length 5.5 to 10 meters								
eiii	6 A socket point wiring length 10.5 to 15meters								
eiv	6 A socket point wiring length 15.5 to 20meters								
8(i)	Point wiring for 6/16Amp switch socket point. Scope to include circuit from D.B. to individual points. Conduit, accessories & wires with 3 x 4mm2 copper wire to be laid from D.B to individual socket. Two socket per circuit to be considered. All wires shall be FRLS. Wiring length up to 5 meters								
(ii)	6/16 A Point wiring 5.5 to 10 meter length of wire								
(iii)	6/16 A Point wiring 10.5 to 15 meter length of wire								
(iv)	6/16 A Point wiring 15.5 to 20 meter length of wire								
(v)	6/16 A Point wiring 20.5 to 25 meter length of wire								
9a	Supply, Installation, Testing & Commissioning 6A switch socket outlet & box consisting of Modular plate type switches including connections.								
b	Supply, Installation, Testing & Commissioning 6/16A switch socket outlet & box consisting of Modular plate type switches including connections.								
c	Supply, Installation, Testing & Commissioning of 20A Reyroll Plug socket with 3 pin Metal Top, in metal board with 20A SPMCB.								
d	Supply, Installation, Testing & Commissioning of 225 mm Dia. Exhaust Fan with connection.								
e	Providing and installing, connecting and commissioning 32A TPN SFU with HRC Fuse.								
10a	Providing and laying Two pair Telephone cable in existing conduit/casing capping								
b	Providing and installing out let for telephone cable								
11	Providing and installing ceiling fan 1200mm sweep with five steps electronic regulator								
12	<b>LIGHT FIXTURES INCLUDING CONNECTION AND BULB</b>								



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	Supply & Installation of light fixtures with Sigma Ballast including lamps , junction boxes, down rod/supports , hardwares rawl plugs, wires/ cables etc. as required and connecting it to switch boards.						
a	Supply and Installation of Portable Emergency Light on Battery suitable for upto 10 hours. Installite/Canara make. Mounting arrangement for lamp to be included.						
b	1x18W Bracket light						
c	WST 71150 with G.I. water pipe arm 1 m long welded to the cap						
d	WFZ 42250						
e	WIF 22228 SGW						
13	Liasoning charges with respective authorities for shifting of point of electrical service and others						
14	Excavation in outside soil including refilling.						
15	Supplying and erecting steel tubuler pole 165.1x139.7x114.3mm thick with 4.5x4.5x3.65 mm thick and (5.6x2.7x2.7mm) respectively11 mtrs. Long as per I.S. 2713 with test certificate from manufacturer complete erected duly painted with two paints of red oxide and two coats of aluminium paint complete erected in position with M.S. base plate of 30x30x0.6 cms thick welded at the bottom and suitable pole cap eracted with set screws or welded complete erected C.C. foundation and plinth.Junction/Looping box included						
	<b>Note: For item nos. 16, 17 and 18, rates should be inclusive of a comprehensive maintenance for 60 months by the vendor</b>						
16	Supplying and erecting centrifugal water pump (Mono block)with C.I. impler, priming funnelcock and common flange mounted on a common shaft of induction motor of 400 V 3 phase A.C. supply of minimum 3 H. P. Motor capable of discharging water 600 to 170 lites per minutes at 12.5 to 27.5 meters total head from all clauses with foundation and with 50 mm suction and 50 mm delivery, water pump shall be confirming to I.S.1520 complete.(Crompton / Kirloskar / Grundfos or any other equivalent make)						
17	Water level controller with necessary probes for controlling motor for cut off when upper tank water level is full, when water level in the tank comes to pre determined level pump shall start automatically. When water level in the suction tank is below the water level, the pump should not start. Also pump should not run dry. The controller shall have manual, auto switches and selection of pump. The rate shall include necessary wiring with copper wires						
18	DOL Starter suitable for 3 H.P. motor including over load						
19	Providing and fixing 25mm PVC conduits / Casing capping including all fittings						
	<b>TOTAL OF SECTION - V</b>					1850000	
<b>SECTION - VI : PLUMBING</b>					740.00	SQ. MT	350.00 259000
<b>A SANITARY SYSTEM</b>							
	Note: All catalogue nos. referred in various items of sanitary fittings are as per Hindustan / Parryware Sanitary ware Catalogues and all fixtures are Jaguar Continental series.						
1.1	Providing and fixing approved 'Indian make white / coloured glazed vitreous chinaware wall hung European water closet cistern including - a) 10 litres capacity flushing cistern with 15mm inlet connection with CP brass stop cock, CP brass flush bend etc. b) CI chair supports for the water closet. c) White or coloured solid plastic seat & cover very heavy quality with rubber buffers fixed to the closet with CP brass pillar hinges.			6.00		15000.00	90000 Nos.
1.2	100 mm dia connector pipe from P trap to the junction of the soil stack on external face of building.						Nos.
1.3	Providing and fixing approved ISI marked make white / coloured glazed 'vitreous chinaware wash 'hand basin counter top or suitable for mounting below 'counter comprising: a) White / coloured glazed vitreous chinaware oval shaped wash basin, size 570mm x 425mm with supporting MS or CI brackets. b) 1No 15mm CP brass pillar cock with all fittings. c) 1No 32mm CP cast brass bottle trap with extension piece to wall, wall flange with rubber adpoter waste connection. d) 1No heavy quality CP brass angular stop cock 15mm size with CP brass flexible connector pipe. The supporting bracket shall be provided with 3 coats of approved paint of approved shade.			6.00		8000.00	48000 Nos.
1.70	Providing and fixing heavy ISI marked make heavy quality CP brass concealed type stop cock with heavy quality cast wall flange. Size 15mm			7.00		700.00	4900.00 Nos.
							Nos.

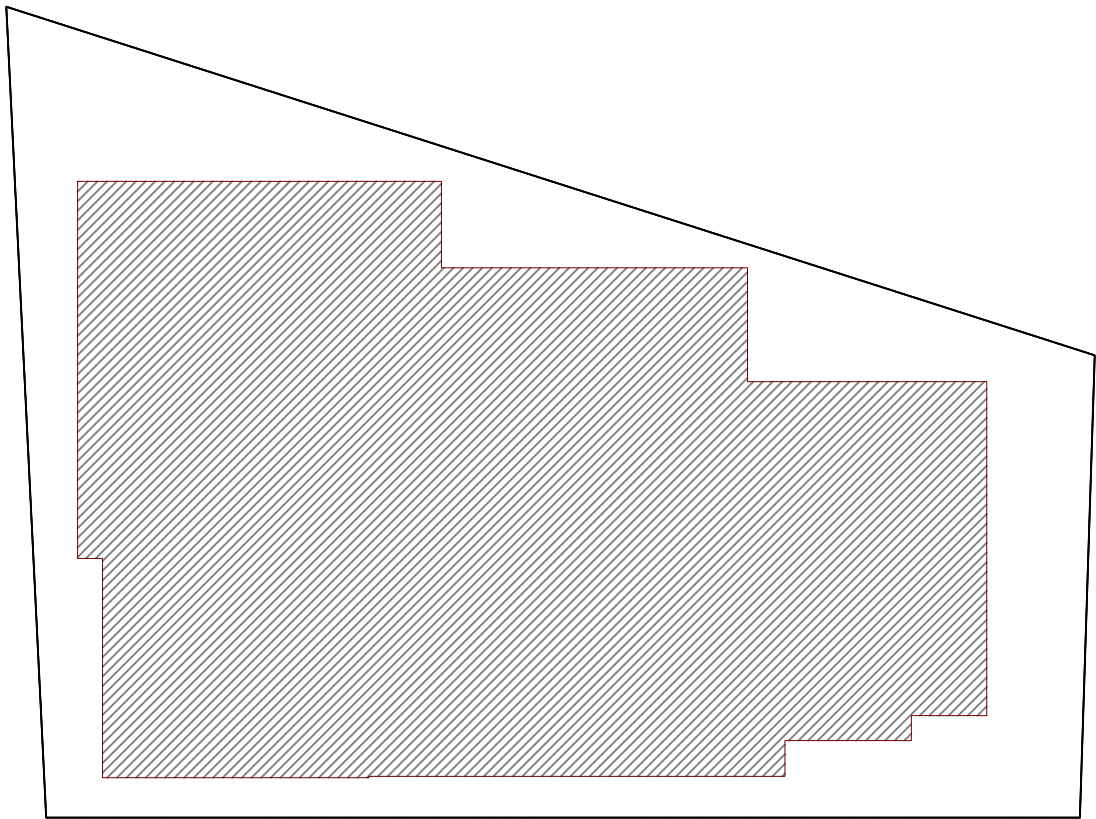
For all Sanitary and Water Supply Works: All piping, connectors, flanges and all other items required for connecting sanitary fixtures and fittings are included in an approximate rate/per sqmt. Only main & visible fixtures are budgeted individually on a per item basis. For the purpose of this course, it is assumed as Rs 350/sqmt.

Bill of Quantities, Measurements & Specifications									
1.9	100 dia C.I. connector pipe from P or S trap to the junction of soil stack on external face of building.								Nos.
1.10	Supply and fixing Hindustan Pilkington make mirrors, 6mm thick with plain or beveled edge, 8mm thick plywood backing, 4Nos CP brass screws with CP brass caps screwed to rawl plugs embedded in wall.				6.00		2500.00	15000.00	Nos.
1.11	Supplying single bowl stainless steel sink of approved make with waste coupling & required fittings etc. complete.				4.00		3000.00	12000.00	Nos.
1.12	Shower Panel				5.00		22000.00	110000.00	
B	<b>WATER SUPPLY SYSTEM</b>				740.00		350.00	259000	
	This item is worked out by the Services Consultant, For the purpose of this course an approximate amount is budgeted.								
2.1*	Providing, laying, fixing jointing with screwed joints using teflon tape GI pipes heavy quality conforming to IS 1239 including all fittings such as sockets, unions reducers, long or short bends, elbows, nipples, flanges, check nuts, clamps etc. testing the pipes and specials and painting the pipes and fittings with one coat of approved primer & finishing coats all as per specifications For pipes in exposed conditions:								
	15mm n.b								
	20mm n.b								
	25mm n.b								
	32mm n.b								
	40mm n.b								
	50mm n.b								
	65mm n.b								
	80mm n.b								
	100mm n.b								
2.2*	Providing, laying, fixing jointing with screwed joints 'C' class heavy GI pipes conforming to IS 1239 including all fittings, testing, painting with bitumastic paint protection wrapping with Hessian faced polyethylene taping & painting complete as per specifications. For pipe lines laid below ground level and laid in chases in walls. The rate includes excavation and cutting chases in walls and reinstatement).								
	15mm								
	20mm								
	25mm								
	32mm								
2.3*	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make)								
	80mm								
	65mm								
	50mm								
	40mm								
	32mm								
	25mm								
	20mm								
	15mm								
2.4*	Providing and fixing in position tested heavy quality ISI marked full way gun metal gate valve of new or equivalent make having both ends screwed female conforming to IS 778:1984 etc. complete.								
	i) 50mm dia								
	ii) 40mm dia								
	iii) 32mm dia								
	iv) 25mm dia								
	v) 20mm dia								
	vi) 15mm dia								
2.5*	Providing, erecting, fixing and commissioning PVC overhead water tank (BMC approved) including making of proper platform as per consultant's direction, lifting of tank to terrace floor level, placing of tank on platform in proper alignment, making of inlet / outlet connections as per bye-laws etc. complete.								
	i) 5000 litres capacity								
	ii) 2000 litres capacity								
	iii) 1000 litres capacity								
2.6*	Providing, fixing gun metal non return valve of approved quality.								
	80mm								
	65mm								
	50mm								
	40mm								
	32mm								
2.7*	Providing and fixing approved ISI marked make CI flanged water meters direct reading type calibrated in litres & kilolitres tested and approved by MCGM with dirt box (strainer) including making necessary flanged joints, testing etc. complete.								
	40mm size								
	50mm size								

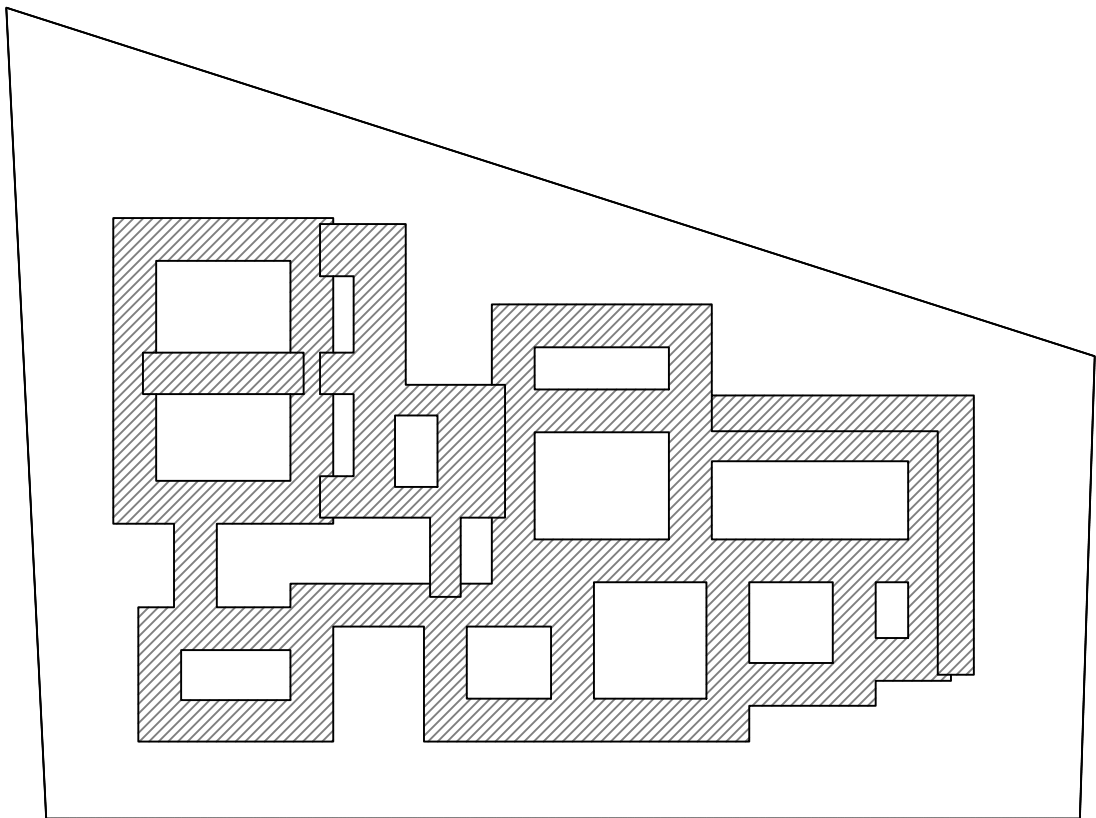
Bill of Quantities, Measurements & Specifications										
2.8*	Constructing brick masonry valve & meter chambers in 230mm thick brick masonry in cement mortar 1:5 using first class bricks constructed over a bed of 150mm thick cement concrete 1:2:4 plastering inside outside and all exposed surface with 20mm thick cement mortar 1:3, finishing inside with a floating coat of neat cement providing & fixing CI frame & cover size, weight mentioned below painting all CI items with 3 coats of approved bitumastic paint etc. complete.									
	Chamber 600 x 600mm clear inside with 600 x 600 CI frame & cover weighting not less than 72kgms. Depth of chamber not exceeding 1000mm.									
2.9*	Providing Structural support for pipe lines using channels, tees, angles, flats & plates fabrication by cutting threading & welding if required, applying one coat of red oxide primer and three coats of synthetic enamel paint, including necessary bolts nuts, washer etc. as required by the Engineer-in-charge. The weight of the support shall be calculated on the basis of catalogue weights of sections used (weight of bolts, nuts etc. will not be considered).									
2.10*	Providing & fixing brass float valves with brass rod and copper float suitable to withstand a pressure 2 kg/sq.cm..									
	50mm n.b									
	40mm n.b									
2.11*	Excavation in trenches for pipelines of required width and depth as directed by Engineer-in-charge including trimming bottom and sides, excavation for sockets including refilling with selected excavated material (after laying of pipeline) in 200mm layers, watering consolidation disposal of surplus earth within 50m etc. complete.									
	In ordinary soil (for CI pipe lines laid outside the building only) depth not exceeding 1.5m.									
	- Do - in soft rock									
2.12*	Providing and fixing best Indian make CP brass air valves with isolation valve fixed on GI lines.									
	15mm n.b air valve with 15 mm isolation valve.									
	20mm n.b air valve with 20 mm isolation valve.									
2.13*	Providing connections to equipments (Kitchen/ Laundry etc. including provision of control valve, running joint with union etc. complete.									
	65mm connections									
	50mm connections									
	40mm connections									
	32mm connections									
	25mm connections									
	20mm connections									
	15mm connections									
2.14*	Supplying and installing Bourden type pressure gauges range 0 to 20 Kg/sq.cm. calibrated both in psi and kg/sq.cm. with 10mm brass gauge cock etc. complete.									
2.15*	Providing and fixing pipe sleeves upto 600mm long, cut from heavy quality M.S pipes conforming to IS 1239 or 3589 (depending on size of pipe with M.S flange conforming to table 13 of IS 6392 on both ends and a 6mm puddle flange at the centre of the sleeve, all flanges welded to pipe, fixing the sleeve in position by tack welding to reinforcement etc. complete.									
	40 mm n.b									
	50 mm n.b									
	65mm n.b									
	80 mm n.b									
	100 mm n.b									
C	<b>INTERNAL DRAINAGE SYSTEM</b>									
	This item is worked out by the Services Consultant. For the purpose of this course an approximate amount is budgeted.									
3.1*	Providing and fixing cast iron traps of self cleansing design with water seal not less than 50mm with or without vent, including setting the trap in 1:2:4 cement concrete etc. complete. The trap shall be 'P' or 'S' type as required. Trap with 100 mm inlet and 100mm dia outlet.									
3.2*	As in item 3.1 but trap with 75 mm outlet.									
3.3*	As in item 3.1 but trap in PVC.									
3.4*	As in item 3.2 but with PVC trap.									
3.5*	Providing and fixing stainless steel grating of 18 gauge thick, with circular perforation of approved pattern over CI traps. The grating shall be of size 100mm x 100mm or circular of 100mm dia (as directed) and shall be set in cement, sand mortar 1:3 etc. complete.									
3.6	- Do - grating of size 150 mm x 150 mm.									
3.7*	Providing, fixing, jointing and testing PVC WC pan connector of approved colour with or without vent horn all as per requirements of Engineer-in-charge. Size 100mm i/d - Length 300mm to 400mm.									
3.8*	Supplying, laying, fixing jointing & testing heavy ISI marked cast iron spun soil pipes / centri cast pipes including all fittings with or without inspection doors, vents, cowls at top etc. jointing with lead caulked joints all as per specification and as directed by Engineer-in-charge.									
	150mm i/d									
	100mm i/d									

Bill of Quantities, Measurements & Specifications									
	75mm i/d								
	65mm i/d								
	50mm i/d								
3.9	Providing, laying, jointing with screwed joints using teflon tape GI pipes of class Tata or Zenith conforming to class heavy of IS 1239 with all fittings testing the piping, painting with 2 coats of bitumastic paint wrapping with Hassein faced polyethylene tape in two layers and again painting with 2 coats of bitumastic paint. The rate includes for cutting chases in wall & floors for embedding the pipe and reinstatement of surface to original conditions.								
	50mm i/d								
	40mm i/d								
	32mm i/d								
3.10*	Providing and fixing in position cast iron rain water inlets with gravel guard and dome type grating specially cast generally conforming to drgs..								
	Inlet for:								
	150mm i/d pipes								
	100mm i/d pipes								
3.11*	Providing and fixing lead sheet flashing made out of 3mm thick lead sheets setting in a layer of cold bitumen etc. complete. The sheet shall project at least 150mm all around the pipe and shall be tucked into the pipe at least by 100mm.								
	150mm i/d pipes								
	100mm i/d pipes								
3.12*	Providing and fixing MS supports for pipes fabricated from MS flats angles and plates including fixing the brackets to walls, slab, beam etc. with anchor, fasteners 12mm 'U' or 'J' bolts for fixing the pipes to damp painting with one coat of primer and two coats of approved paint etc. complete.								
3.13*	Providing and laying cement concrete 1:2:4 for bedding, envelopes haunches etc. for the pipes including mixing placing form work curing etc. complete.								
3.14*	Supplying laying fixing jointing and testing PVC drainage system (SWR) including fittings with or without inspection doors, vents, cowls etc. all as directed by engineer in charge.								
	110 OD								
	75 OD								
3.15*	Providing and fixing PVC plain or multi floor traps of self cleansing design with water seal not less than 50 mm with or without vent including setting the traps in cement mortar etc. complete. Traps with 125 mm inlet and 75 mm outlets.								
3.16*	Providing clean outs in cast iron drain piping comprising G I heavy class socket and screwed plug, connecting C I pipe with lead caulked joint etc. complete.								
	150mm								
	100mm								
	75mm								
3.17	Supply, laying, jointing and testing PVC pipes including all moulded fittings conforming to IS 4985 (10Kg/sqcm variety) etc. complete.								
	50mm O.D								
	40mm O.D								
	32mm O.D								
3.18	Providing and fixing in position heavy ISI marked long arm C.I. nahani trap of IS 1729 weighing 9 kg of Neco or Equivalent make of size 100x75x500mm dia outlet including embedding on flooring at required level with M150 cement concrete all around and below the trap, supplying and fixing brass C.P. square grating of size of 150 x 150mm with brass C.P. cover plate as specified etc. complete.								
3.19	Providing, fixing and jointing in proper alignment & position heavy ISI marked 50mm dia. C.I. pipe of Neco or Equivalent for vent conforming to IS 1729 with all necessary fittings, like offset, bend, cowl etc. including erection of scaffolding at required level, making holes in walls as required, fixing of pipe & fitting in position, lead jointing /filling of joints with CM 1:3 (only on approval of consultant), reinstatement of surfaces etc. complete.								
3.20	Providing, fixing and jointing in proper alignment & position heavy ISI marked C.I. Centri pipes of Kapilansh or Equivalent make (within building line) for drainage conforming to IS 3929 of 150 mm diameter size with all necessary fittings, like offset, bend, etc. including excavation upto required level, making holes in walls if required, laying of pipe at proper gradient, lead jointing /filling of joints with CM 1:3 (only on approval of consultant), reinstatement of surfaces etc. complete.								
3.21	Providing and constructing 300 x 300mm internal size brick masonry gully trap chamber including laying of 100mm thick PCC 1:3:6 in bed, 115mm thick brick walls in CM 1:5, fixing of glazed stoneware gully trap of size 150 x 100mm, making connection of wastewater pipe to it, plastering inside the chamber with CM 1:3 to form hopper, fixing of heavy C.I. cover with frame weighing not less than 7 kg. in PCC 1:2:4 & making flooring level on top etc. complete.								

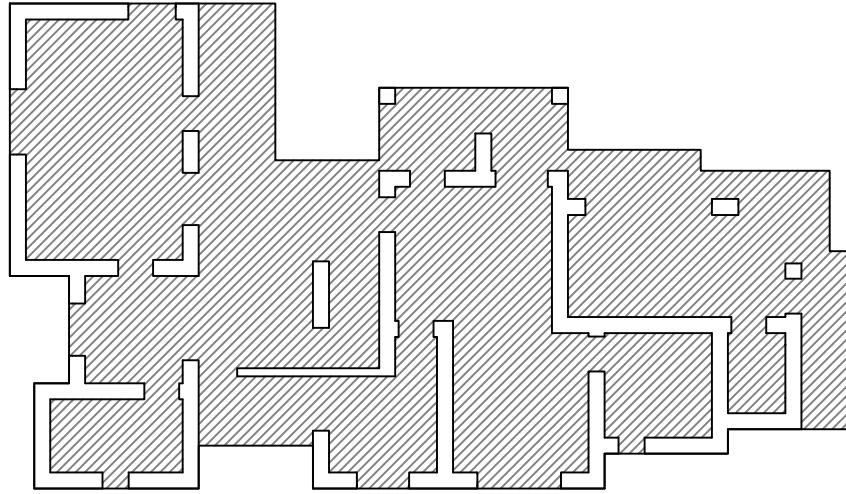
Bill of Quantities, Measurements & Specifications							
3.22	Providing, laying and jointing ISI marked first quality 'A' grade salt glazed stoneware pipe & bend, including excavation to the level of required depth, laying of 100mm thick PCC, placing of pipe on PCC as specified at proper alignment and gradient, sealing the joints with tarred gasket of hemp or rope yarn, caulking with cement mortar 1:2, testing of pipeline, encasing of pipe as specified, curing, refilling etc, complete.						
	i) 100mm dia						
	ii) 150mm dia for depth between 0.45 and 0.60 Mtrs						
	iii) 150mm dia for depth between 0.60 and 1.00 Mtrs						
3.23	Providing & fixing 150 mm diameter ISI marked first quality 'A' grade salt glazed stoneware sewer trap as specified.						
	i) 150mm diameter						
3.24*	Constructing brick masonry inspection chamber of size of 900x450mm and depth as mentioned in itwiesm below including excavation upto required depth, laying of 100mm thick PCC foundation bed in 1:3:6 mix, 230mm thick brickwork in CM 1:3, 20mm thick plastering of walls inside & outside as specified, making of smooth channel & haunch in CM 1:2, 150mm thick PCC coping on top, fixing of C.I. manhole cover of Neco make weighing not less than 75 kg, backfilling, removal of surplus earth as specified etc, complete.						
	i) Depth between 0.45 and 0.60 m.						
	ii) Depth between 0.60 and 1.00 m.						
	<b>TOTAL OF SECTION - VI : PLUMBING</b>					538900	
<b>SECTION - VII : LANDSCAPING AND GARDENING</b>							
A*	<b>Development work</b>						
a1	Planting of Flowering trees on soft surface: Digging of pit for plantation of tree by excavating the ground in the earth / murum / sand of 1.0m x 1.0m x 1.0m size, removing excavated material from site, filling Red Hill Earth (0.33 Cu.m.), Cow dung manure (0.33 Cu.m.) and good excavated earth from pit (0.33 Cu.m.), mixing of Red Hill earth and cow dung manure and plantation of tree sapling, staking of tree sapling, preparation of tree basin, levelling, watering and maintaining for 30 days after completion of plantation and replacement of casualties till 30 days. ( Excluding cost of the plant)			0.00	SQ.MT	0.00	0
a2	Planting of Flowering trees on hard surface: Digging of pit for plantation of tree by excavating the ground in the concrete / masonry/ asphalt of 1.0m x 1.0m x 1.0m size, removing excavated material from site, filling Red Hill Earth (0.33 Cu.m.), Cow dung manure (0.33 Cu.m.) and good excavated earth from pit (0.33 Cu.m.), mixing of Red Hill earth and cow dung manure and plantation of tree sapling, staking of tree sapling, preparation of tree basin, levelling, watering and maintaining for 30 days after completion of plantation and replacement of casualties till 30 days. ( Excluding cost of the plant)			0.00	SQ.MT	0.00	0
B*	<b>Providing plants and tree saplings:</b>						
b1*	Plant 1			10.00	Nos.	0.00	0
b2*	Plant 2			10.00	Nos.	0.00	0
b3*	Plant 3			10.00	Nos.	0.00	0
b4*	Plant 4			10.00	Nos.	0.00	0
b5*	Plant 5			10.00	Nos.	0.00	0
b6*	Plant 6			10.00	Nos.	0.00	0
b7*	Plant 7			10.00	Nos.	0.00	0
b8*	Plant 8			10.00	Nos.	0.00	0
b9*	Plant 9			10.00	Nos.	0.00	0
b11*	Plant 10			10.00	Nos.	0.00	0
b12*	Plant 11			10.00	Nos.	0.00	0
b13*	Plant 12			10.00	Nos.	0.00	0
	<b>TOTAL OF SECTION - VII : LANDSCAPING AND GARDENING</b>					0	
	<b>GRAND TOTAL ( SECTIONS I + II + III + IV + V + VI + VII )</b>					9109132.32	



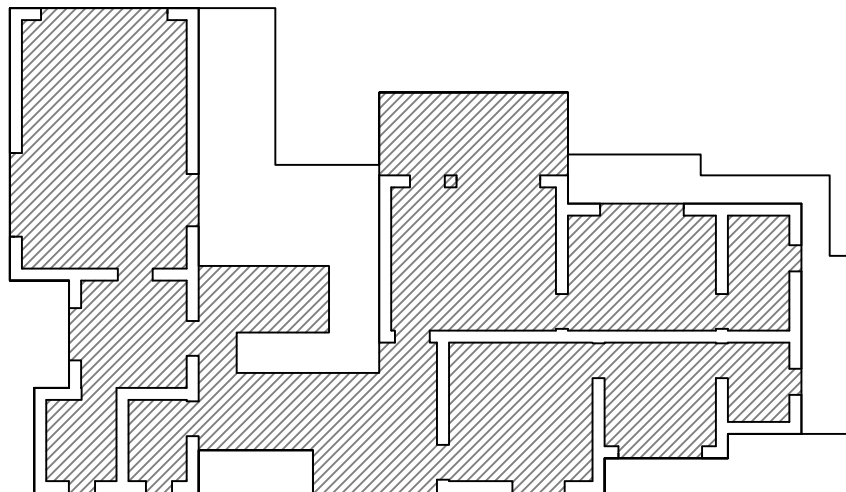
II. A. a1 - EXCAVATION PIT LINE  
FOR FOUNDATION  
354 sq. m



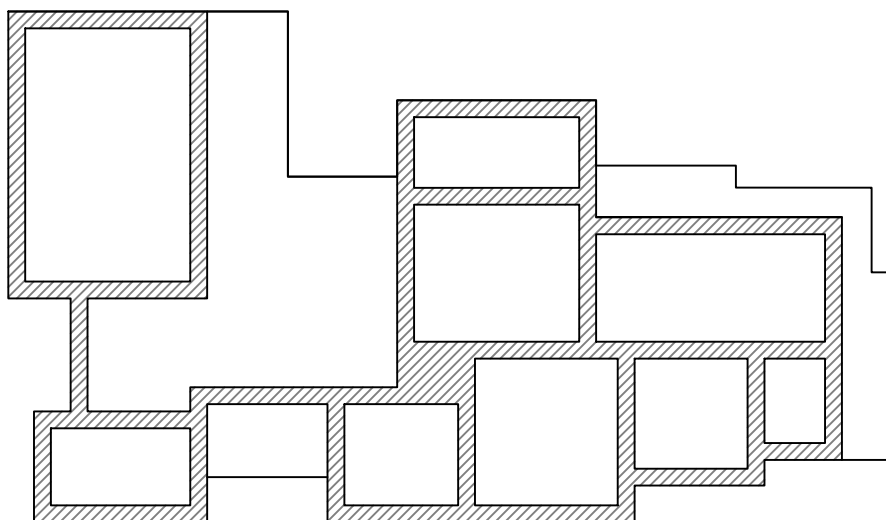
II. A. a3 - ANTI TERMITE TREATMENT  
PRECONSTRUCTION FOR FOUNDATION  
195.5 sq. m



II. A. a4 - ANTI TERMITE TREATMENT  
POSTCONSTRUCTION FOR GROUND FLOOR  
247.75 sq. m



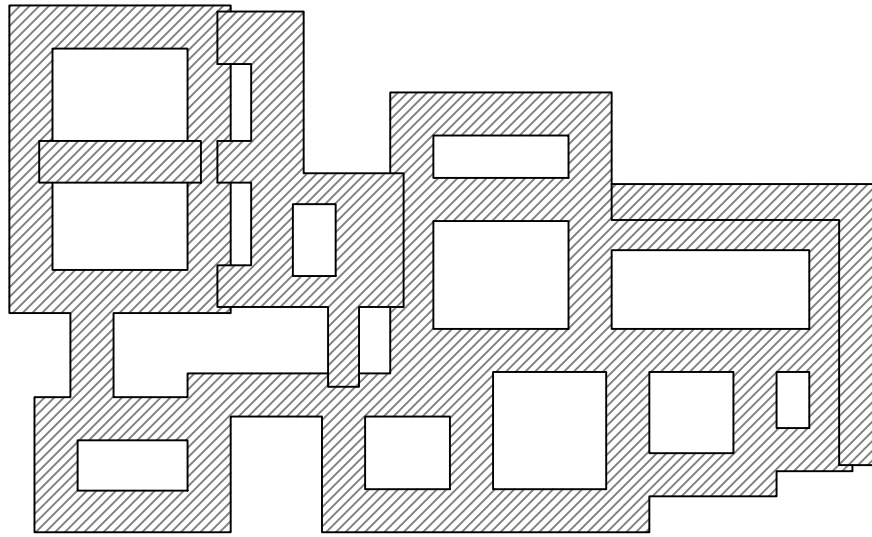
II. A. a4 - ANTI TERMITE TREATMENT  
POSTCONSTRUCTION FOR FIRST FLOOR  
180.5 sq. m



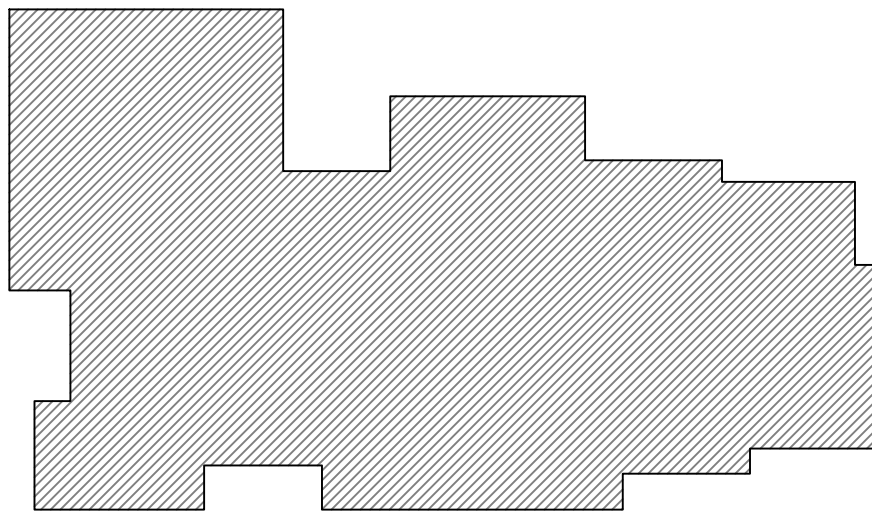
II. A. a5 - DAMP PROOF COURSE

58 sq. m

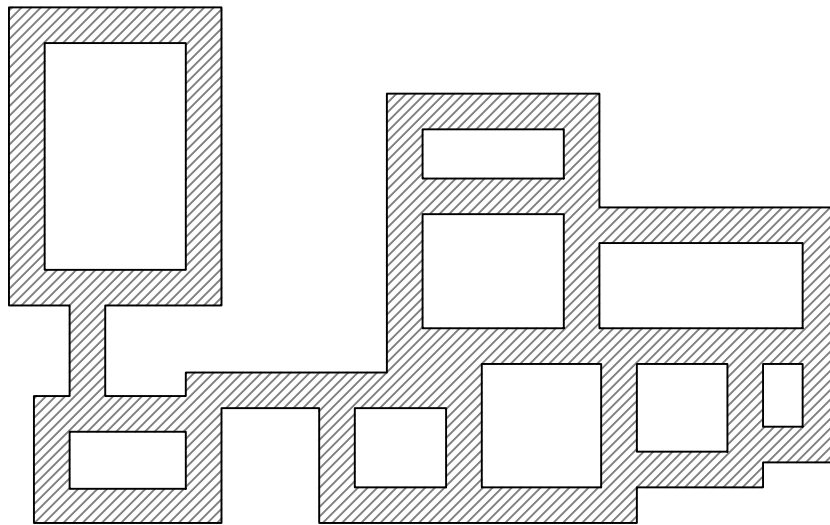




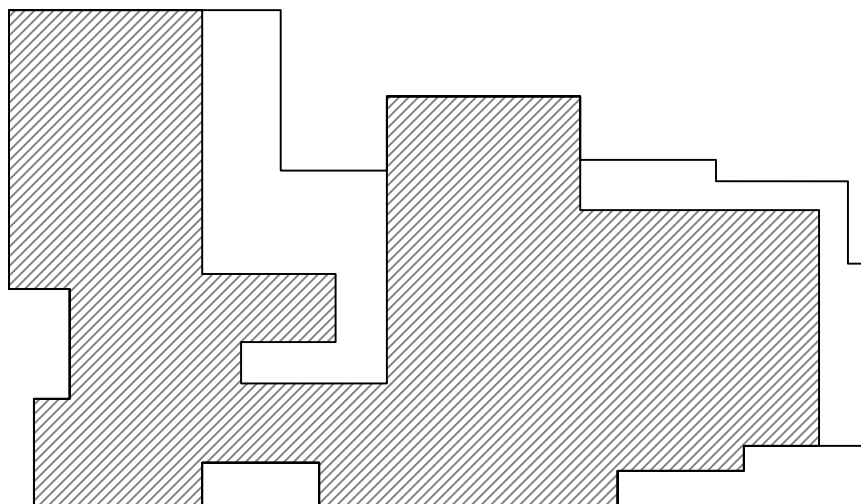
II. B. b1 - PCC FOR FOUNDATION  
195.5 sq. m



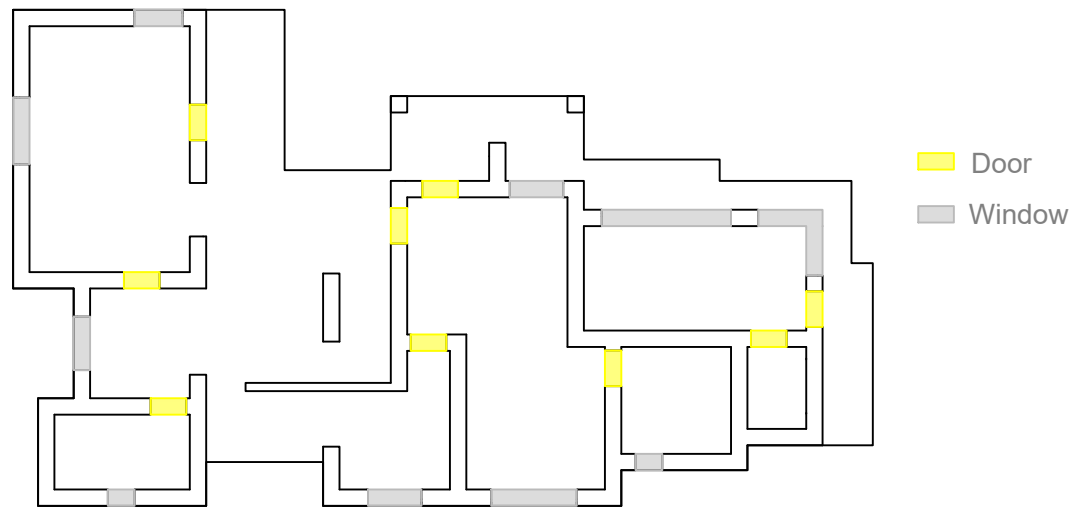
II. B. b1 - PCC FOR GROUND FLOOR PLINTH  
258 sq. m



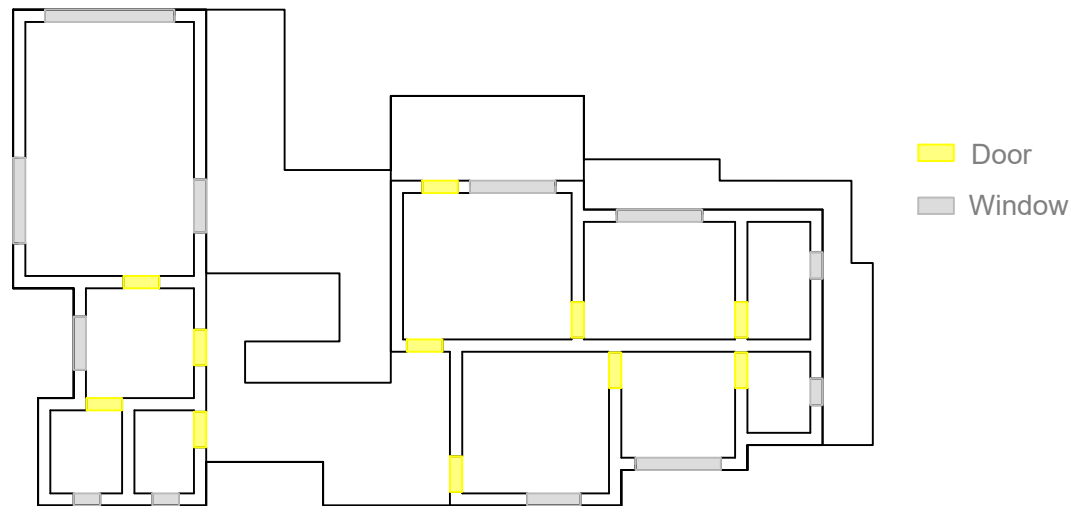
II. B. b5 - RCC FOR FOUNDATION  
23.7 cu. m



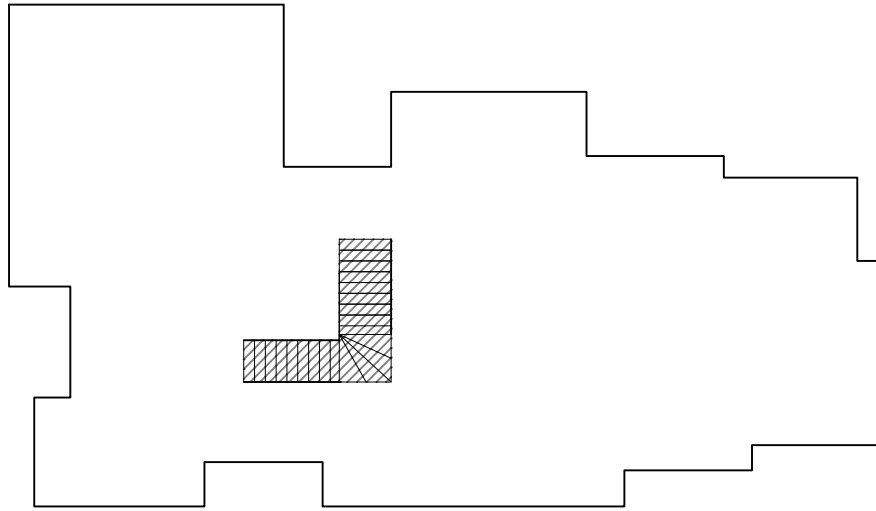
II. B. b5 - RCC FOR FIRST FLOOR SLAB  
39 cu. m



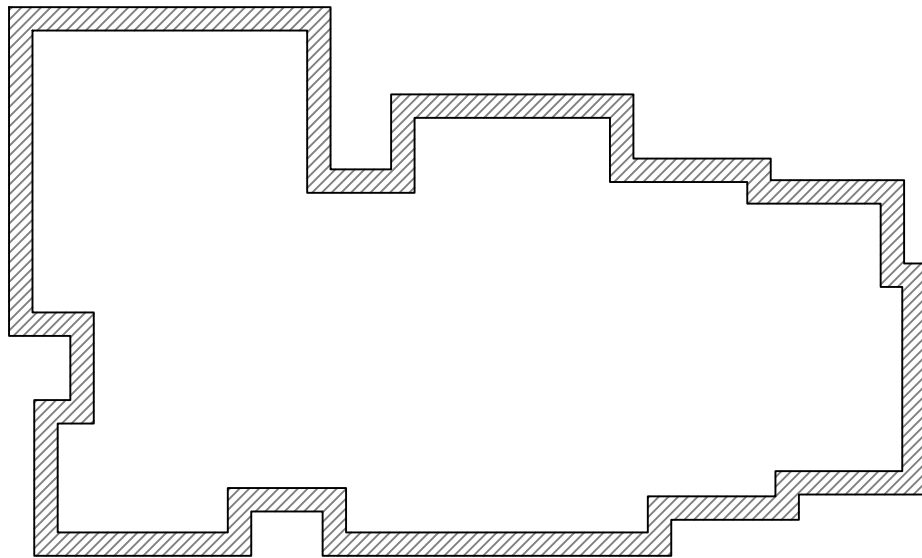
II. B. b5 - RCC LINTELS AND SILLS  
FOR GROUND FLOOR  
3.8 cu. m



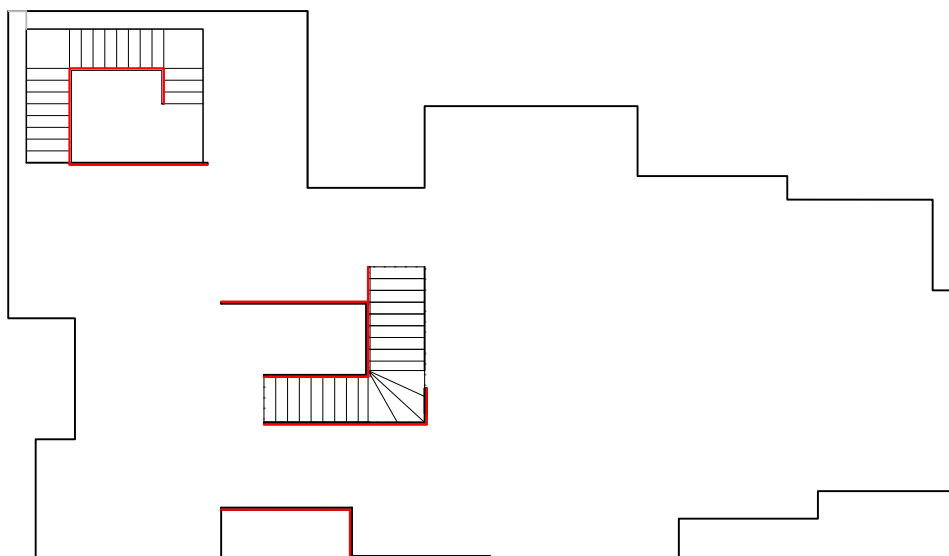
II. B. b5 - RCC LINTELS AND SILLS  
FOR FIRST FLOOR  
3 cu. m



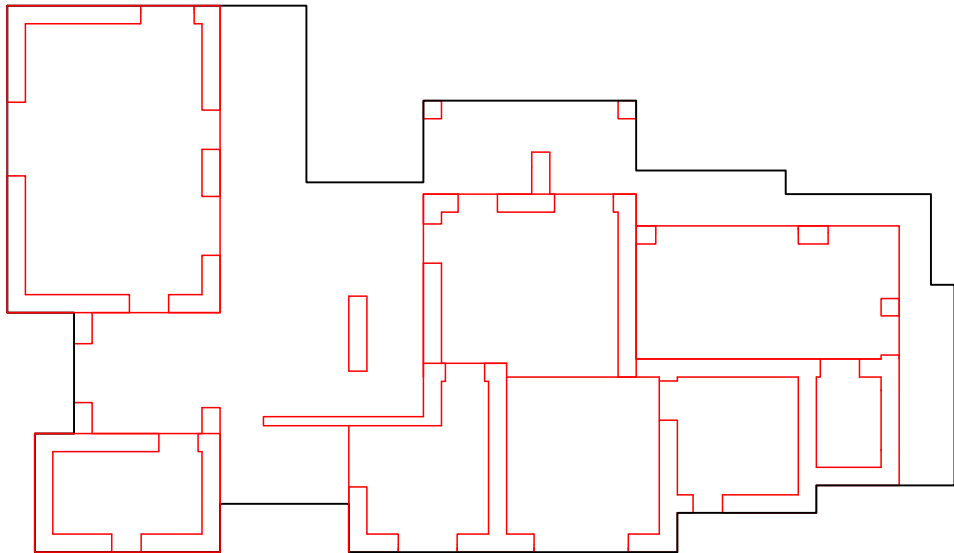
II. B. b6 - RCC FOR STAIRCASE  
17.2 sq. m



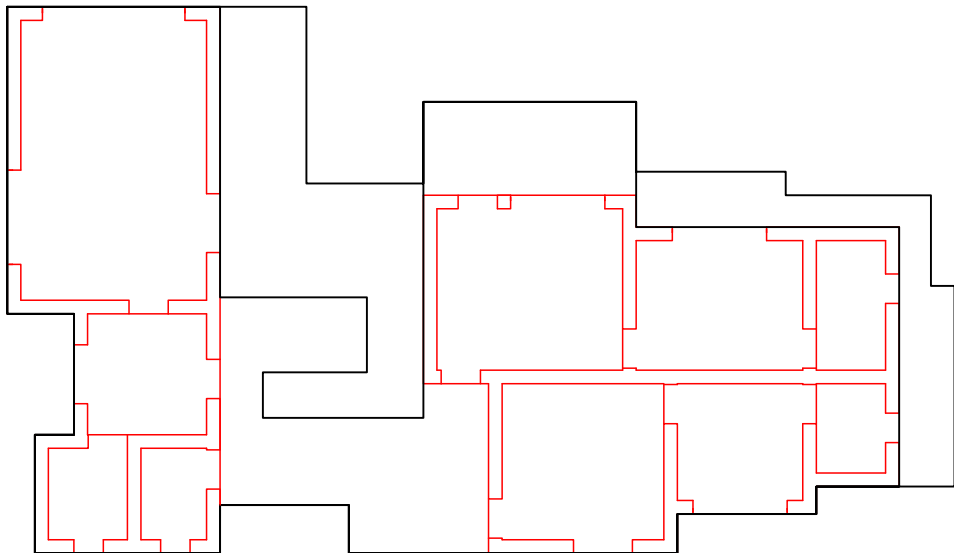
II. B. b7 - PLINTH PROTECTION  
90 running. m



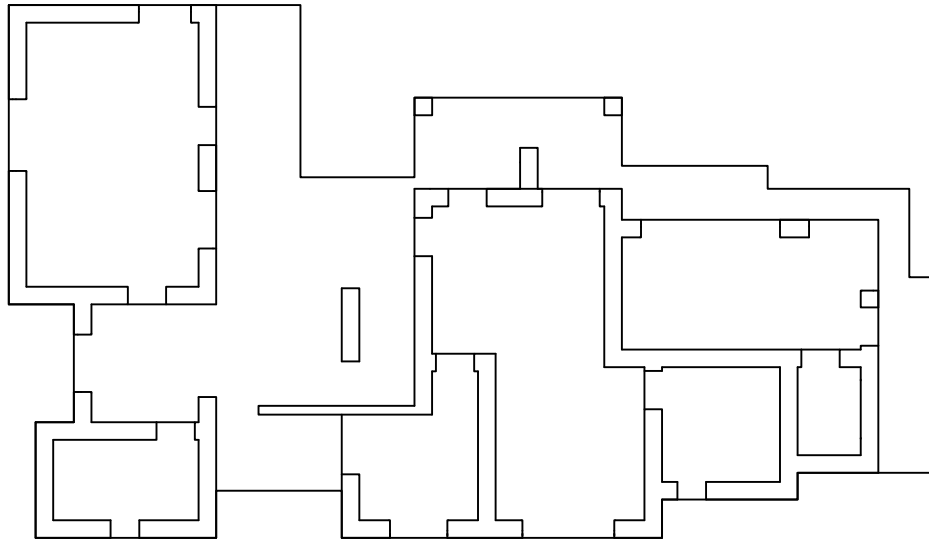
II. E. e4 - STEEL RAILING  
33 running. m



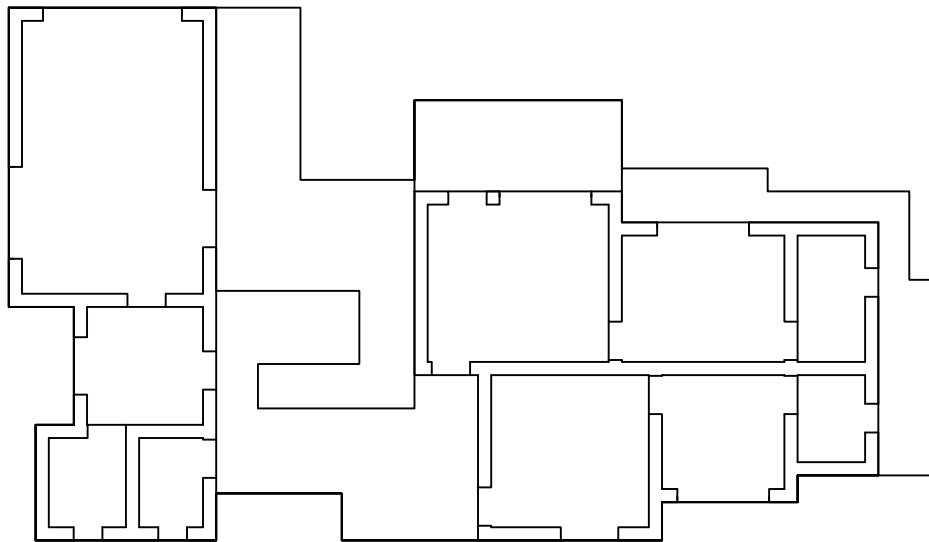
II. G. g1 - BRICK MASONRY WALLS  
FOR GROUND FLOOR  
126.6 cu. m



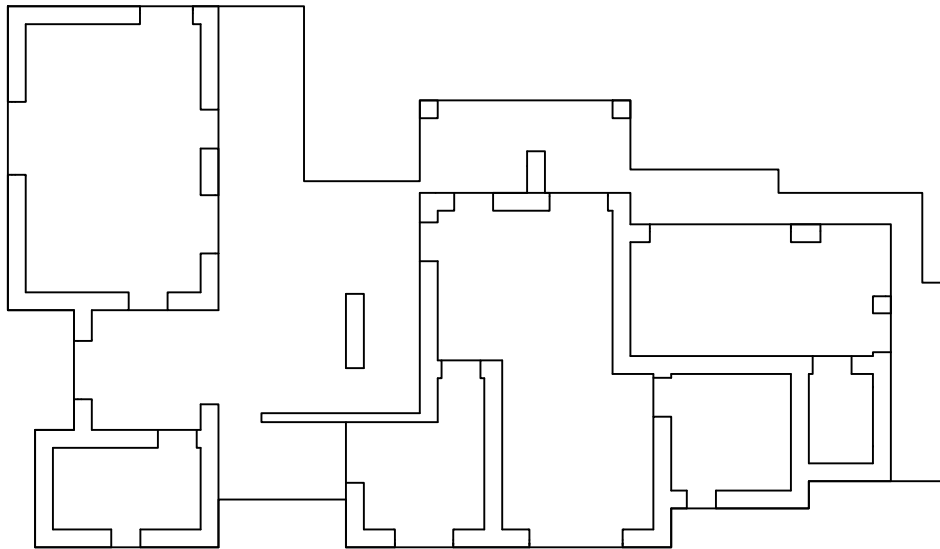
II. G. g2 - BRICK MASONRY WALLS  
FOR FIRST FLOOR  
89.7 cu. m



II. H. h1 & h2 - PLASTER FOR GROUND FLOOR  
687 sq. m

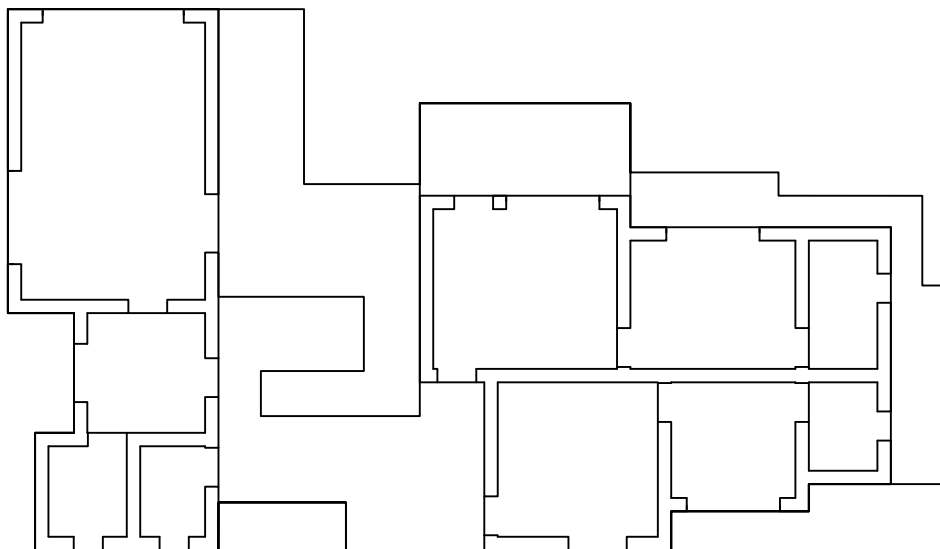


II. H. h1 & h2 - PLASTER FOR FIRST FLOOR  
537 sq. m



II. J. j1 & j2 - PAINTING FOR GROUND FLOOR

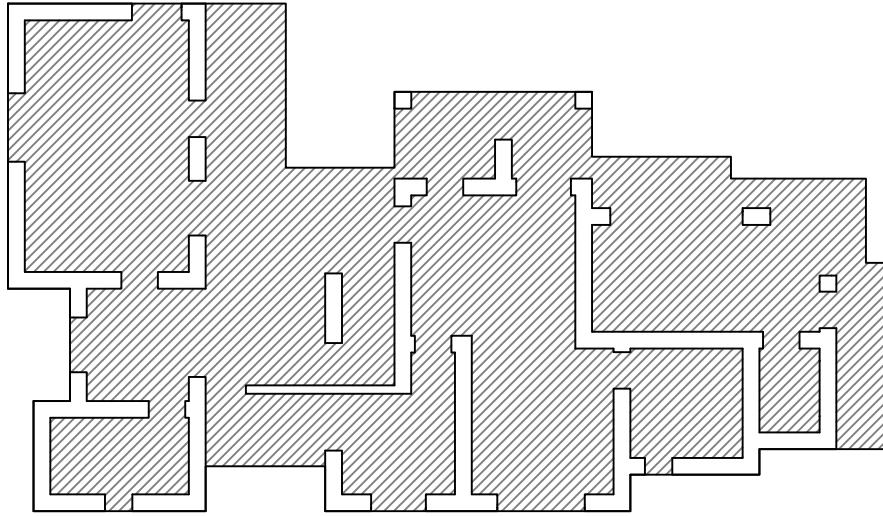
687 sq. m



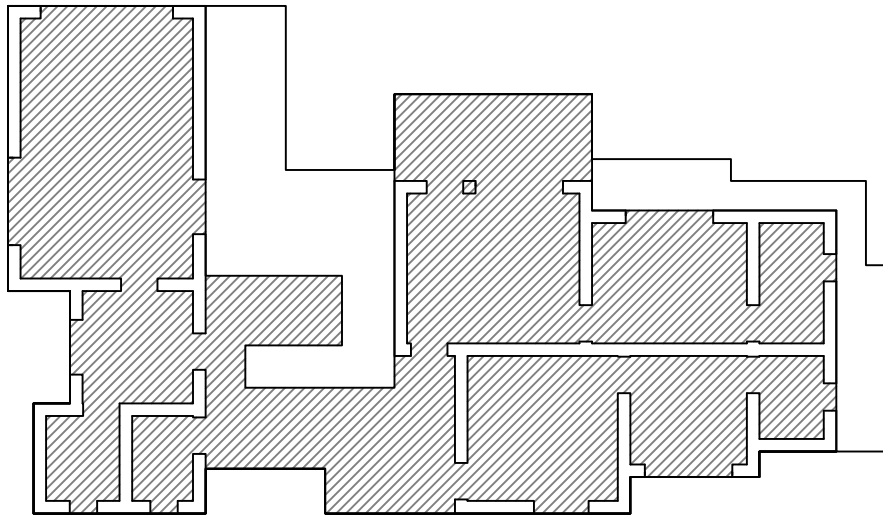
II. J. j1 & j2 - PAINTING FOR FIRST FLOOR

537 sq. m

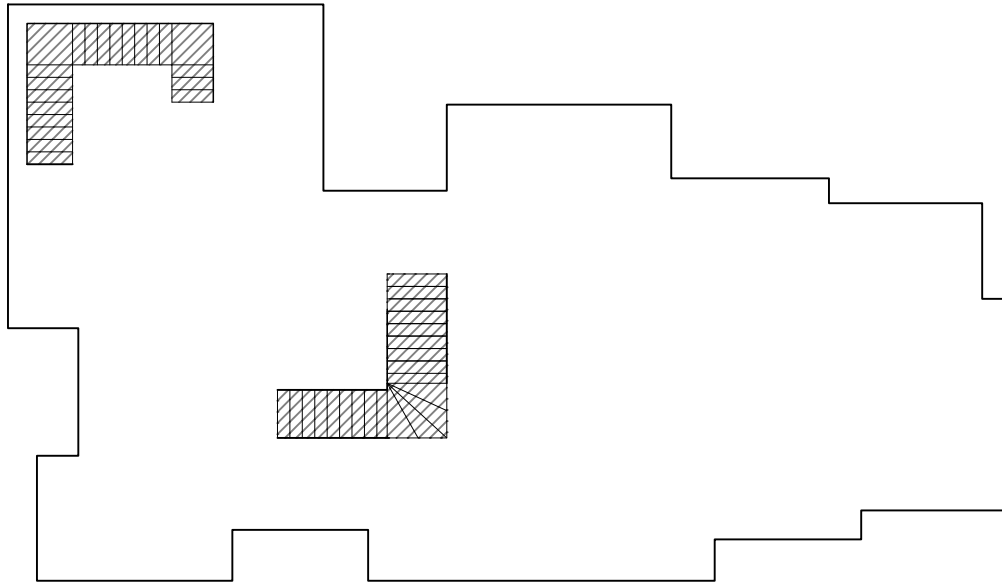




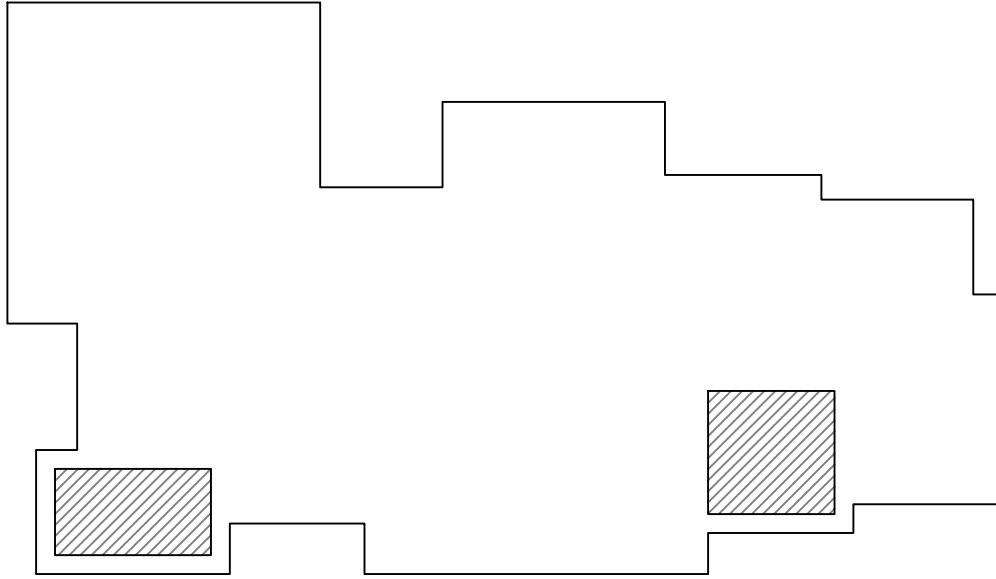
II. K. k1 - KOTA STONE FLOORING  
FOR GROUND FLOOR  
189.75 sq. m



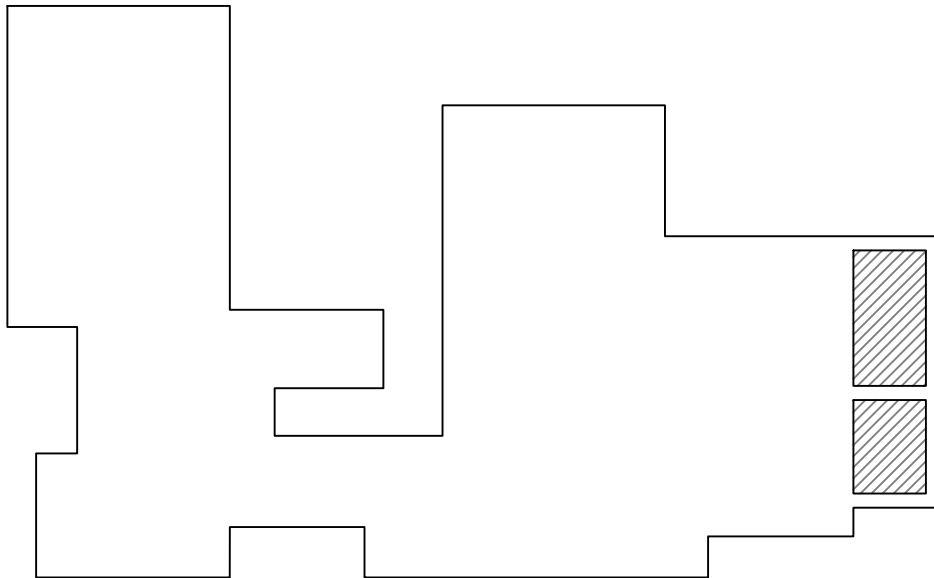
II. K. k1 - KOTA STONE FLOORING  
FOR FIRST FLOOR  
122.3 sq. m



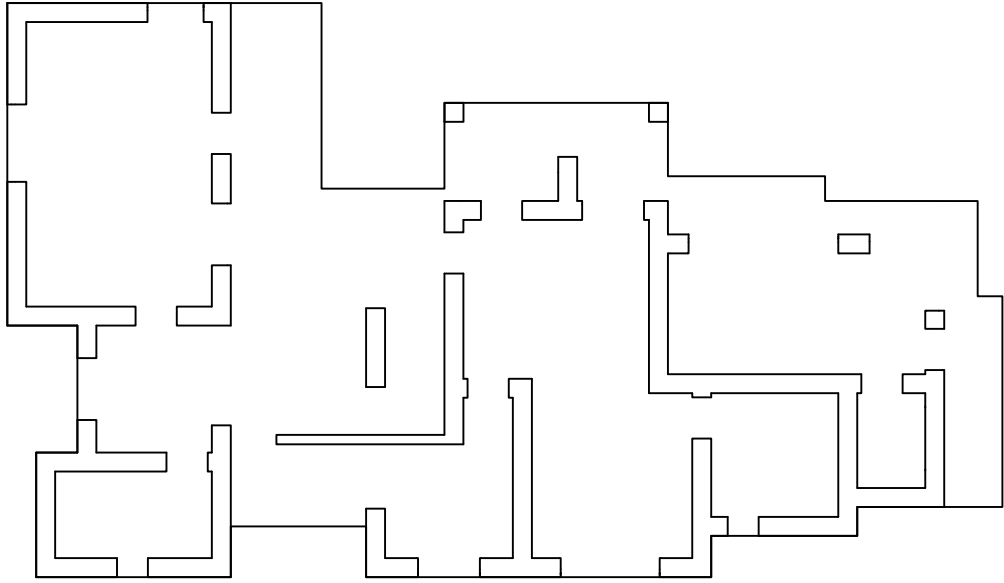
II. K. k2 & k3 - KOTA STONE FLOORING  
FOR STAIRCASE  
18.8 sq. m



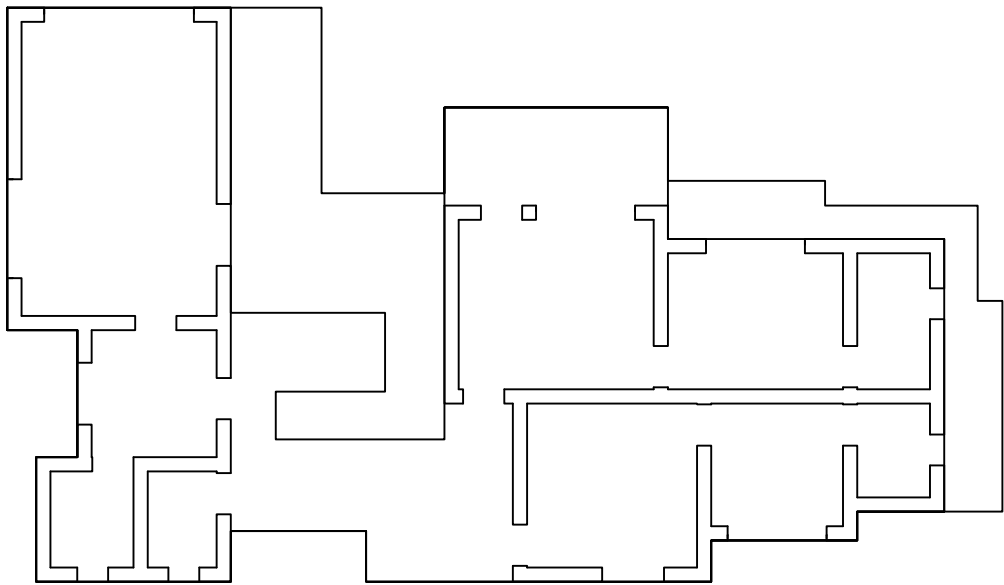
II. K. k5 - ANTI SKID VITRIFIED TILES  
FOR GROUND FLOOR  
13.6 sq. m



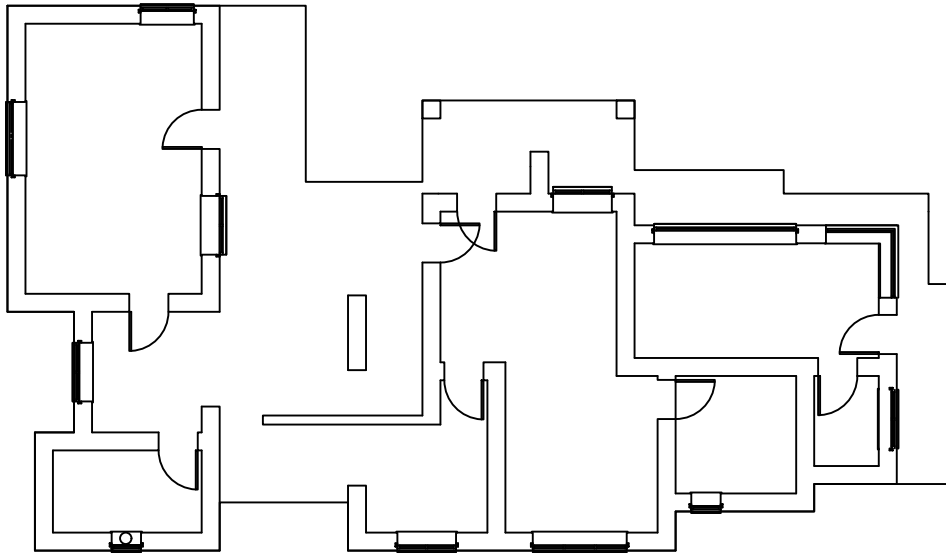
II. K. k5 - ANTI SKID VITRIFIED TILES  
FOR FIRST FLOOR  
11 sq. m



II. K. k6 - SKIRTING FOR GROUND FLOOR  
13.5 sq. m



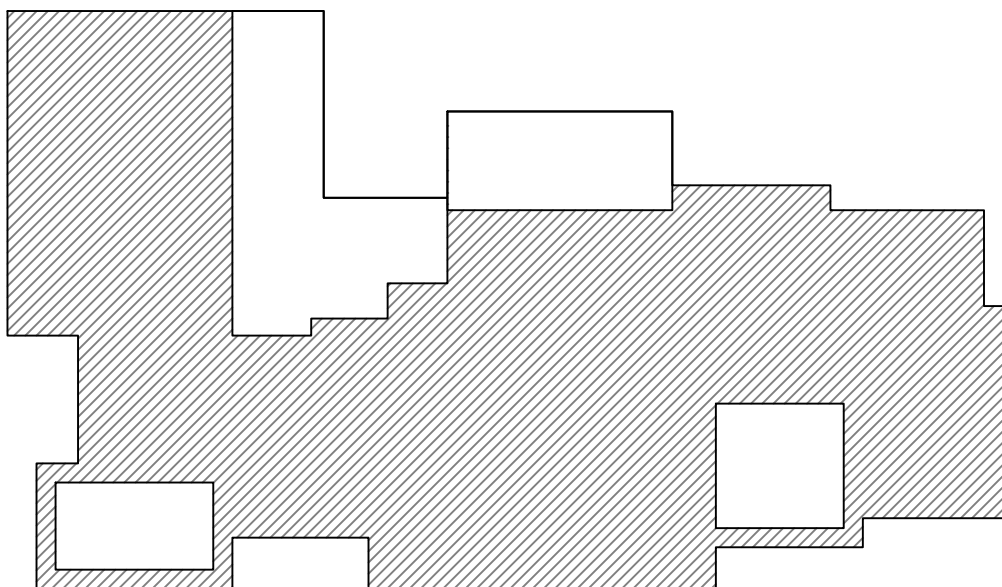
II. K. k6 - SKIRTING FOR FIRST FLOOR  
9.4 sq. m



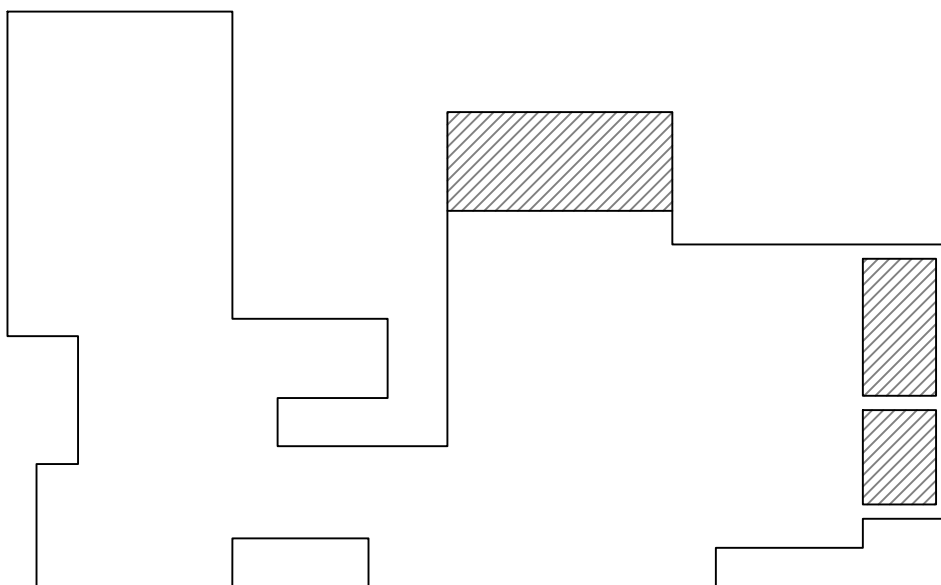
II. M. m1 & m2 - DOORS AND WINDOWS  
FOR GROUND FLOOR  
76.7 sq. m



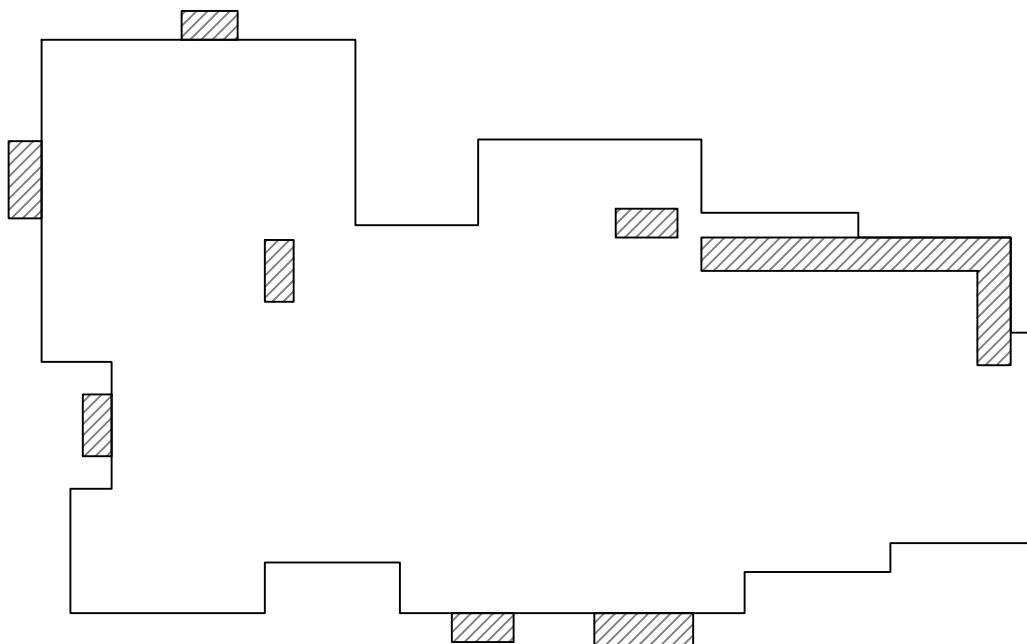
II. M. m1 & m2 - DOORS AND WINDOWS  
FOR FIRST FLOOR  
61.1 sq. m



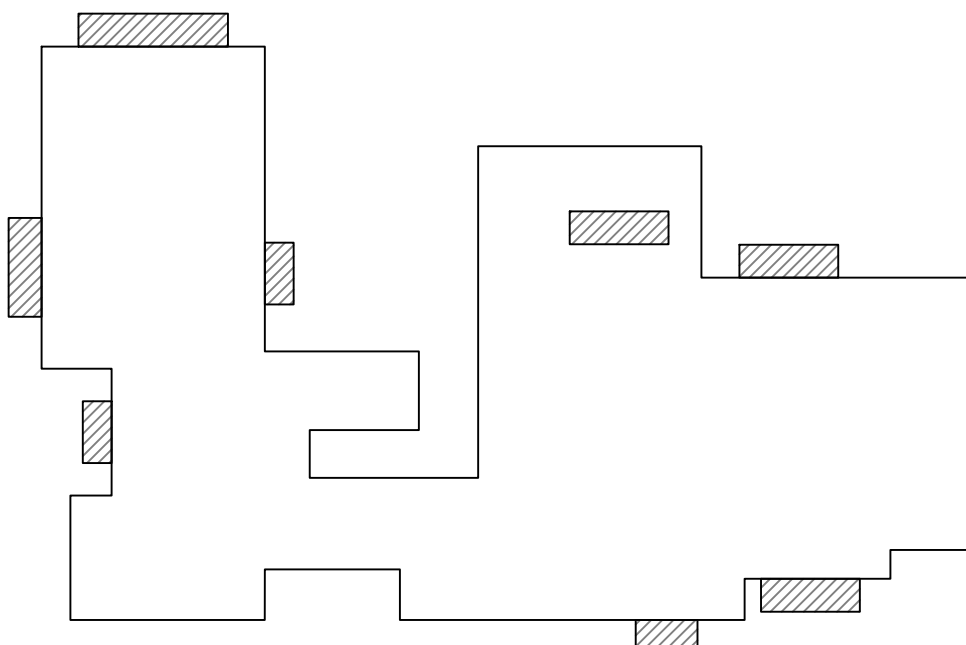
II. N. n2 - WATERPROOFING FOR  
GROUND FLOOR  
70.5 sq. m



II. N. n2 - WATERPROOFING FOR  
FIRST FLOOR  
66.1 sq. m



II. N. n4 - WATERPROOFING CHAJJA  
FOR GROUND FLOOR  
14.2 sq. m



II. N. n4 - WATERPROOFING CHAJJA  
FOR FIRST FLOOR  
12.3 sq. m