

TENDER FOR CONSTRUCTION OF BUILDING FOR TRAINING INSTITUTE OF CANARA BANK  
CENTENARY RURAL DEVELOPMENT TRUST SITUATED AT HOLALUR SHIMOGA- FINANCIAL BID

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TENDER DOCUMENT  
FOR  
THE CONSTRUCTION OF BUILDING  
FOR TRAINING INSTITUTE OF CANARA BANK  
CENTENARY RURAL DEVELOPMENT TRUST  
AT HOLALUR, SHIMOGA

**VOLUME-II -Price Bid containing Bill of Quantities**

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**ISSUED TO \_\_\_\_\_**

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<b>TOTAL SUMMARY OF BOQ</b>					
	<b>SLNO</b>	<b>DESCRIPTION</b>			<b>AMOUNT</b>
	<b>I</b>	<b>IN CIVIL WORKS</b>			
	<b>II</b>	<b>PLUMBING AND SANITARY WORKS ESTIMATE</b>			
	<b>III</b>	<b>ELECTRICAL WORKS ESTIMATE</b>			
		<b>TOTAL TENDERED AMOUNT</b>			

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<b>BILL OF QUANTITIES FOR CIVIL WORKS</b>	
<b>COST SUMMARY</b>	
<b>CIVIL WORKS</b>	
A. EARTHWORK	
B. PLAIN CEMENT CONCRETE	
C. REINFORCED CEMENT CONCRETE	
D. MASONRY	
E. PLASTERING & PAINTING WORK	
F. FLOORING & PAVING WORKS	
G. WOOD & ALUMINIUM WORKS	
H. STEEL REINFORCEMENT WORK	
I. STEEL WORK	
J. WEATHER PROOFER	
K. ROAD AND PAVEMENT WORKS	
L. MISCELLANEOUS WORKS	
<b>TOTAL VALUE OF CIVIL WORK</b>	

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<b>BILL OF QUANTITIES FOR CIVIL WORKS</b>					
ITEM NO	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATE	AMOUNT
<b>A</b>	<b>EARTH WORK EXCAVATION</b>				
	<p>Note: Unless otherwise specified rates quoted for all excavation shall include the following:</p> <p>a) Site clearance such as clearing shrubs undergrowth, roots and small trees brush wood, etc.,</p> <p>b) Setting out the work to profile, etc.,</p> <p>c) Bailing or otherwise removing all water may accumulate in the excavation from all causes.</p> <p>d) Cutting out and throwing soil clear of area excavated or depositing clear of edge of foundation to avoid fall in.</p> <p>e) Trimming all sides to plumb or otherwise as instructed at site and square leveling all bottoms. Clearing out all loose earth etc.,</p> <p>f) Disposing surplus soil as directed within the site or outside and dressing to proper level and grade as required.</p> <p>g) Dismantling, removing and stacking as directed existing water pipe and /or soil pipes within the excavated portion.</p> <p><b>h)</b> Providing shoring and strutting for protecting the sides of foundation where required.</p>				
A1	<b>Earthwork excavation in all types of Soil for foundation trenches and column footings</b> , stacking the excavated earth and disposable materials including watering, consolidating in 150mm thick layers,				

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	disposing the surplus earth with a lead of 100m, shoring, bailing out water etc., complete				
	a) Upto 1.5M depth.	260.00	CUM		
	b) 1.5M to 2.5M depth.	5.00	CUM		
A2	Earth filling below flooring in Plinth, sides of Foundation Trenches and Column footings with <b><u>available approved excavated earth</u></b> as directed including watering and consolidating in 150mm thick layers etc., complete.	190.00	CUM		
A3	Earth filling below flooring, sides of Foundation Trenches and Column footings <b>with <u>New approved earth brought from outside</u></b> as directed including watering and consolidating in 150mm thick layers etc., complete.	RO	CUM		
A4	Demolishing <b>Existing RC Staircase with landing and RC parapets</b> Including Clearing & Carting Away of Debris & Stacking Reinforcements As Directed.(1.9X4.8x3.65m ht in two flights with a flight width of 0.915m)	LS			
<b>B</b>	<b>PLAIN CEMENT CONCRETE</b>				
	<p>Note: Unless otherwise specified, the following will apply for all items of Plain cement concrete. Rate quoted shall be inclusive of the following but will exclude cost of inserts like bolts, plates, sleeves, pipes etc.,</p> <p>a) All form of work moulds, centering and shuttering. Shuttering material shall be steel, timber or plywood as directed.</p> <p>b) Adequate protection to edges and corners for damage during construction.</p> <p>c) Work either straight, curved, plain or tapered.</p> <p>d) Keeping the work well watered for at least 10 days after casting.</p>				

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	<p>e) Roughening concrete to surface where required after removal of centering or shuttering receiving plaster.</p> <p>f) Work on all floors at all levels.</p> <p>g) Building and placing in position any insert supplied.</p> <p>h) Weigh batching and machine mixing and consolidation using vibrators of approved type.</p> <p>i) Fine aggregates shall conform to appropriate gradation/zones as per IS: 383 - 1990</p> <p>j) Course aggregate shall be of hard broken Granite, basalt or trap of size specified. and shall confirm to IS: 383-1990.</p> <p>k) The contractors are particularly advised to study relevant drawings before quoting</p> <p>l) A qualified mechanic shall be available during concreting for maintenance of mixers and vibrators</p> <p>m) Minimum cement content for controlled concrete shall be of specified grade as per IS 8112</p>				
B1	Providing and laying <b>PCC 1:4:8 bed for foundation wall trenches and column footings / below flooring</b> using 40 mm and down gauge graded granite stone aggregate including machine mixing, tamping, curing, shuttering, scaffolding etc., complete.	38.80	CUM		
B2	Providing and Laying <b>PCC 1:2:4 in Damp proof course</b> using 20 mm and down gauge graded granite stone aggregate mixed with water proof compound of approved quality as per Manufacturers specifications including machine mixing, shuttering, tamping, curing etc., complete.	5.00	CUM		
B3	Providing and Laying <b>PCC 1:2:4 in Cills and Coping</b> using 20 mm and down gauge graded granite stone aggregate and finishing all exposed faces in Cement Mortar 1:4 including machine mixing, shuttering, tamping,	3.50	CUM		

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	curing etc., complete.				
B4	Providing and Laying <b>PCC 1:2:4 50mm average thick in bed over Cinder/Terrace</b> laid to levels/gradient as in drawings using 20 mm and down gauge graded granite stone aggregate mixed with water proof compound of approved make as per Manufacturers specifications including finishing smooth / rough to receive Flooring, tamping, curing etc., Complete	45.00	SQM		
B5	Providing and Laying <b>PCC 1:3:6 in Flagging and Pavements 75mm thick</b> using 20 mm and down gauge graded granite stone aggregate, finishing all exposed faces in Cement Mortar 1:4 including machine mixing, shuttering, tamping, curing etc., complete.	45.00	SQM		
<b>C</b>	<b>REINFORCED CEMENT CONCRETE</b>				
	<p>Note: Unless otherwise specified, the following will apply for all items of Plain and reinforced cement concrete. Rate quoted shall be inclusive of the following but will exclude cost of reinforcement and inserts like bolts, plates, sleeves, and pipes etc., Minimum grade of concrete to be used for any structure member shall be M-20 as per code IS-456.</p> <p>Mix design shall be as per guidelines in IS: 10262 – 1982 reaffirmed in 2009 subject to minimum cement content as per IS 456-2000.</p> <p>a) All form of work moulds, centering and shuttering. Shuttering material shall be steel, timber or plywood as directed.</p> <p>b) Adequate protection to edges and corners for damage during construction.</p> <p>c) Work straight, curved, plain or</p>				



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	<p>tapered.</p> <p>d) Keeping the work well watered for at least 10 days after casting.</p> <p>e) Roughening concrete to surface where required after removal of centering or shuttering to receive plaster.</p> <p>f) Work on all floors at all levels.</p> <p>g) Building and placing in position any insert supplied.</p> <p>h) Weigh batching and machine mixing Consolidation using: vibrators of Approved type</p> <p>i) Course sand shall be used for all Concrete work</p> <p>j) Course aggregate shall be of Hard broken Granite, basalt or Trap of size specified</p> <p>k) The contractors are particularly advised to study relevant drawings before quoting</p> <p>l) A qualified mechanic shall be available during concreting for maintenance of mixers and vibrators</p>				
	<p>Providing and laying cast in situ reinforced cement concrete conforming to relevant IS code using 20 mm and down grade aggregates at any depth or heights including centering, shuttering(shuttering bottom height upto 12'6"), scaffolding, removal of the same compacting with vibrators, curing, hacking the exposed surface to receive plaster wherever necessary etc.</p>				
	<p><b>The Design Mix of various grades of concrete shall be got done by the contractor at his cost from reputed institutions / Laboratories with approval of the Architect/Trust for further implementation of the site. RCC M20 Grade Design Mix Concrete to be used for all RCC Works</b></p>				
C1	In Column Footings.	35.00	CUM		
C2	In Column Shafts & pedestals.	40.36	CUM		
C3	In Flat Roof Slabs and projections.	59.99	CUM		

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C4	In Roof beams/Lintels.	64.90	CUM		
C5	In Staircase with Waist Slab.	6.20	CUM		
C6	In Chejja/Loft 75mm thick	47.48	SQM		
C7	In Counters/Cill Slabs 50mm thick	24.10	SQM		
C8	In Pergola's	1.5	CUM		
C9	In Plinth Beams	6.00	CUM		
<b>D</b>	<b>MASONRY</b>				
	<p>Note: Unless otherwise specified, the rates quoted for all items shall include the following:</p> <p>a) All scaffolding, ladders, platforms, staging and plant required in the execution of work to any height and depth.</p> <p>b) Hacking and roughening of concrete or other surface in contact with masonry for bondage.</p> <p>c) Racking joints to specified depth either for plastering or painting.</p> <p>d) Leveling up and preparing top of masonry for Damp Proof Coarse (DPC)</p> <p>e) Building in hold fasts and such other inserts.</p> <p>f) Keeping the work well wetted for two weeks.</p> <p>g) Work at all heights and depths unless otherwise specified.</p> <p>h) Providing through bond stones at every 2 mtrs., apart in each course in stone masonry</p> <p>i) Leveling up and preparing top of masonry for damp proof course.</p> <p>j) Protection of edges and corners of Bricks / Concrete Blocks</p> <p>k) Cleaning of Mortar daubs and any efflorescence to prevent discoloration.</p> <p>L) Providing shear connectors in the form of lugs/ holdfasts at junctions of masonry wall junctions as directed</p>				

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D1	Providing and Constructing <b>Size stone masonry in Foundation/Plinth/Retaining Wall</b> in Cement mortar 1:6 using granite stones, edges of stones hammer dressed, in courses not less than 175mm high, through bond stones every 2m interval in each course including curing etc., complete all as per drawings and specifications.	48.00	CUM		
D2	Providing and constructing <b>burnt brick Masonry walls 230mm thick in Superstructure</b> using approved quality bricks in Cement mortar 1:6 including necessary scaffolding, curing, hacking of concrete surfaces and packing of the space between column/ beam/roof/slab and walls and filling of voids created by chasing of walls for water supply & electrical works with appropriate material etc., complete all as per drawings	233.00	CUM		
D3	Providing and constructing <b>burnt brick masonry Partition walls/Parapet Walls 115mm thick in Superstructure using</b> of approved quality bricks in Cement mortar 1:4 including 2 Nos. of 6 mm dia. Mild Steel bars at every Tenth course embedded in Mortar, necessary scaffolding, curing, hacking of concrete surfaces and packing of the space between column/ beam/roof/slab and walls and filling of voids created by chasing of walls for water supply & electrical works with appropriate material etc., complete all as per drawings. (Inclusive of Cost of Steel and Fabrication charges)	99.52	SQM		
<b>E</b>	<b>PLASTERING &amp; PAINTING WORK</b>				
	NOTE: Unless otherwise specified, rates quoted for all items shall include the followings: a) Hacking or scarifying concrete surfaces to be plastered or rendered. b) Preparation of surfaces by				

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	<p>raking out joints wetting the surface etc;</p> <p>c) Providing grooves at the junction of masonry and concrete members wherever different materials are connected and also wherever necessary.</p> <p>d) Work at all heights and depths.</p> <p>e) Washing floors, cleaning glass, and leaving premises clean and tidy.</p> <p>f) Curing.</p> <p>g) Necessary scaffolding, ladder platform for any height and depth.</p> <p>h) Galvanized chicken mesh (2guage, 12mmsize) shall be provided at junction of brick masonry and concrete members to be plastered properly stretched and nailed ensuring equal thickness of plaster.</p>				
E1	Prepare surface and <b>plaster to ceiling / soffits</b> of roof slab / beams, beam sides etc; with 12 mm thick cement mortar 1:4 including finishing with thin slurry of lime.	497.20	SQM		
E2	Prepare surface and <b>plaster internal surfaces</b> of brick/block walls with 15 mm thick cement mortar 1:6 including finishing with a thin slurry of lime.	1196.02	SQM		
E3	Item same as above but finished <b>rough for Cladding/Dado</b> (1:6 CM).	185.00	SQM		
E4	Prepare surface and <b>plaster External surfaces</b> of brick/ block masonry walls with 20 mm thick cement mortar 1:5 mixed with waterproof compound as per manufacturer's specification including sponge finishing as directed.	1218.30	SQM		
E5	Preparing and rendering <b>Lath Plaster 50mm thick in Fascia and Drops</b>				

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	with Chicken Mesh and MS 6 mm dia. Reinforcement at 6" c/c both directions, base coat 15 mm thick with cement mortar 1:6 and final coat 10 mm thick with cement mortar 1:4 finished (both sides) smooth/rough as directed, mortar mixed with WPC of approved make as per Manufacturers specifications etc., complete inclusive of cost of Steel Reinforcement. (Area of only one surface shall be measured for the purpose of payment.)	25.00	SQM		
E6	Providing two coats of painting to Ceiling and Walls with <b>Premium Acrylic Emulsion</b> of approved, shade and manufacture over two coats Ready mix putty, priming coat with primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specification	1387.00	SQM		
E7	Providing two coats of painting to Ceiling and Walls with <b>OB</b> of approved, shade and manufacture over two coats Ready mix putty, priming coat with primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specification	352.00	SQM		
E8	Providing two coats of External <b>Emulsion paint (APEX)</b> of approved quality and shade over a coat of primer for the external face of walls as directed etc., complete.	1123.20	SQM		
E9	Providing and applying Texture coat of " <b>SPECTRUM</b> " or equivalent make Interior / Exterior grade coating of approved shade to the plastered wall surfaces in Panels / Pattern, all as per Manufacturers specifications and as directed etc., complete.	RO	SQM		

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E10	Providing <b>Drip Moulding</b> with Plastering of 25mm x 6mm in cement mortar 1:4 with smooth rendering for projected surfaces, including providing and Removing scaffolding, cost of materials, labour, curing complete as per specification	80	RMT		
<b>F</b>	<b>FLOORING &amp; PAVING WORKS</b>				
	<p>Note: Unless otherwise specified, rates quoted shall include the following:</p> <p>a) Final preparing of base sub-grade or sub-floor including minor trimming of the base to remove slight undulations.</p> <p>b) Cleaning and watering immediately before laying the floor as directed.</p> <p>c) Providing bedding layer of mortar as specified in the case of slabs, tiles, etc., to correct levels or steps as called for.</p> <p>d) Cutting, rubbing, polishing where applicable.</p> <p>e) Working at all heights unless otherwise specified.</p> <p>f) Keeping the surface wet for a minimum period of one week.</p> <p>g) Protecting finished flooring to prevent any damage till handing over.</p> <p>h) Skirting to be made flush to wall face/or as per Drawings.</p> <p>i) Protecting finished surface using POP or equivalent material.</p>				
F1	Providing and laying <b>Non slip Matte Ceramic tiles for Flooring</b> using tiles of approved colour, make and size, set in 25 mm thick CM 1:4 including cement slurry and pointing with pigmented non-shrink tile grout, including cost of materials, curing, oxalic acid wash, labour etc., complete.	42.00	SQM		
	Basic cost of tiles Rs 35/-sft				
F2	<b>a)</b> Item same as above but Using Matt Ceramic Tiles in Skirting 100mm high.	RO	RMT		

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	<b>b) providing Premium quality Vitrified Tiles</b> 60cmsx 60cms of approved make shade & size for flooring laid on a bed of 20mm thk cement mortar 1:3 mix, flush, pointing with pigmented non-shrink tile grout, including cost of materials, curing, oxalic acid wash, labour etc., complete as per spec: (Basic cost of tiles Rs 45/- sft)	440.70	SQM		
	<b>c) Item same as above but using vitrified tiles in skirting of 100mm high</b>	242.23	RMT		
	<b>d) Using Cement Based Tiles (Ultra/Eurocon) in Flooring. RATE ONLY</b>	RO	SQM		
	<b>e) Using Cement Based Tiles in Skirting 100mm high.</b>	RO	RMT		
F3	Providing and fixing <b>Dado using Glazed Ceramic tiles</b> of approved colour, make and size, set in 12 mm thick CM 1:4, pointing with pigmented non-shrink tile grout, including cost of materials, curing, oxalic acid wash, labour etc. Complete all as per Drawings.	175.00	SQM		
	Basic cost of tiles Rs 35/- per sft.				
F4	Providing and laying machine cut and <b>mirror polished Kota Stone Single Slab 25 mm thick in Staircase Treads and Landing</b> having machine cut edges fixed over a bed of 25 mm thick cement mortar 1:4, <b>Edge Nosing on exposed edges</b> including Tin oxide Polish, POP protective coat to prevent scratches, curing etc., complete all as per drawings.	28.00	SQM		
F5	Providing and laying machine cut and polished <b>Kota Stone Single Slab 25 mm thick in Staircase Risers</b> , fixed over a backing of 12 mm thick cement mortar 1:3, inclusive of cement slurry, Tin oxide Polish, POP protective coat, curing etc., complete.	13.00	SQM		
F6	Providing and laying in 100mm high <b>Staircase Stepped Skirting using machine cut and polished Kota Stone Slab 25 mm thick</b> – height to match Riser along the Stair fixed over a backing of 12 mm thick cement mortar 1:3, <b>including half round nosing,</b>	20.00	RMT		

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	cement slurry, Tin oxide Polish, POP protective coat, curing etc., complete.				
F7	Providing and laying <b>Granolithic flooring (Cement Flooring)</b> of 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) using 20mm graded granite stone aggregate obtained from approved quarry laid to level or slope in bays not exceeding 3 sqm per panel including providing metal/glass strips to the full depth of the flooring and finished smooth, curing, etc; complete all as per specifications.	RO	SQM		
F8	Providing and laying precast interlocking cement tiles 65mm thick of approved make/shade/design over a base of compacted layer of coarse sand and finished to levels by compacting vibrators and fine sand spread over the compacted surface to ensure all cavities are filled with and no movements of tiles are ensured, moping and brushing of excess sand on the surface done before use of paved area.	RO	SQM		
<b>G</b>	<b>WOOD &amp; ALUMINIUM WORKS</b>				
	<p>Note: Unless otherwise specified, the rates quoted for all items shall include the following:</p> <p>a) Hold fasts of flat iron 40x5 mm site welded or screwed to the frame and embedded in concrete 1:3:6 15m x 15m in the support walls.</p> <p>b) Work at all heights</p> <p>c) Shall include cost of the following fittings for teak wood door</p> <p>i) 3 Nos. of brass butt hinges 150mm size for each door shutters.</p> <p>d) Shall include the cost of fixing fitting/s like Hinges, tower bolts, aldrops, Hasps, staples, handles, door stoppers, bathroom latches, mortice lock and night latches etc.,</p> <p>e) Sample of flush shutters shall be got approved by the Architects before fixing.</p>				



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	<p>f) Where the frames are to be fixed to RCC works rawl plugs/rawl bolts/expansion bolts are to be provided.</p> <p>g) Where aluminium comes in contact with masonry brick cement plaster or dissimilar metals, it shall be coated with approved insulation lacquer paint or plastic tape to ensure that electrochemical erosion is avoided.</p> <p>h) After the doors or windows have been fixed, the open hollow sections abutting masonry/concrete shall be filled with cement grout 1:3</p> <p>i) The gaps between frames and support and also any gaps in the door and window sections shall be raked out and filled with mastic cement.</p> <p>j) Fixing of Plain clear glass of MODI FLOAT or equivalent approved make of specified thickness fixed with TW beading as directed.</p> <p>k) Finishing to Wooden Surfaces shall be using 2 coats of Synthetic Enamel paint of approved make and shade over a coat of wood primer, preparation of surfaces using sand paper, removing dirt, making up dents, holes, cracks using wood filler/paste, putty work all as per directions. OR French Polishing in 3 coats OR Polish in 3 coats of approved make after preparation of surfaces using sand paper, removing dirt, making up dents, holes, cracks using wood filler, putty work all as per directions</p> <p>l) All Blockboards and Plywoods shall be lipped using TW lipping of approved size.</p>				
G1	Providing and fixing <b>Single/Double Leave Flush Shutter Doors with Sal Wood Frame,</b> Rebatted frames	31.50	SQM		

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	without Threshold of size 125x75mm fixed into masonry with holdfasts embedded in PCC 1:3:6, Readymade Flush Shutters using 32mm thick Waterproof Block Board of approved quality/make with outer surface fixed with 1mm laminate of a approved make design & shade including two coat of Enamel painting over primer and putty for other surfaces, Fixing of Hardware and Fittings etc., complete all as per drawings.				
	Schedule of fittings: Handles:- SS Handle Lock :- godrej cylindrical lock Hinges :- 3NosSS Hinges –Heavy gauge each shutter Tower Bolts:- 2 Nos stainless steel each shutter Stopper:- One eachshutter.				
G2	--Do—But <b>FRP Sheet Lining</b> Inside and Painted on other Sides	13.00	SQM		
	Schedule of fittings: Handles:- Aluminium Lock :- AL Drop Hinges :- 3 per shutter Tower Bolts:- 1Nos 150mm Aluminium. Tower bolt.				
G3	Providing fabricating and fixing <b>Aluminum powder coated fixed glazing</b> as per Architect's drawing using Single/Double groove aluminium frame sections All the aluminium sections should be powder coated and cut to the required length, joints mitried and corners grinded & 5.0mm thick plain glass shall be fixed for all panels using gaskets and snap-on-beadings. The assembled frame should be stiffned with corner angles strips and fixed with screws/rawl plug, including applying sealants between frames and masonry wall, Etc complete.( Recomneded sections of jindal or equivalent frame-4687,4688-0.942 kg/m)	16.00	SQM		
G4	Providing and fixing powder coated <b>Aluminum glazed windows</b> as per Architect's drawing <b>with sliding shutters using double track 61.85x31.75x1.3mm</b> (section no 8758 of jindal or equivalent ) for frame section	38.60	SQM		

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	alround and 40x18x1.25mm shutter section and 40x26.7x1.1mm inter lock section for shutter. The shutter should be mounted on nylon rollers with approved quality fixtures such as aluminum handle, tower bolt etc. Providing 4mm thick clear glass for shutter fitted with rubber beading. All the aluminum sections should be fabricated by reputed firm by cutting to the required length, joints mitred subdividing the frame tennoned and riveted in the assembled frame to be stiffened with end clips, corner angles etc. fixed to the wall, lintel, floor-beam as the case may be with necessary steel screws, rawl plugs and teak wood guttas, etc including cutting masonry, concrete and making good to the original surface using cement mortar. Work should be carried out as per the directions of engineer-in-charge of the work, including applying sealants between frames and masonry wall, Etc complete to a degree of perfection.				
G5	Providing and fixing <b>Second Class Indian Teakwood fully Pannelled Doors</b> with frame of size 125mm x 75mm and styles and rails 30mm thick with teak wood panels of 25mm thickness fixed in masonry as per design and drawings including teak wood beading fixed in masonry with 40mm x 5mm flat iron hold fasts 40cms long embedded In CC 1:3:6 with granite metal of size 20mm and down 15cms thick, including fittings such as brass tower bolts, brass hinges, etc., complete with all lead and lift, including T/W polishing with 2 coats. (Including providing and fixing of fixtures and godrej locks).	3.00	SQM		
	Schedule of fittings: Handles:- ornamental brass Handle Lock :- godrej cylindrical lock / decorative aldrops bolt-brass Hinges :- 3 Nos Brass Hinges per shutter Tower Bolts:- 2 Brass bolts per shutter Stopper:- one per shutter.				
G6	Providing and fixing Power Coated <b>Aluminium split glazed Ventilators</b> , as per Architectural drawing using plain	25.00	SQM		

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	section frame with 4mm thk pin headed/plain glass with necessary angles & beadings. Work should be carried out as per the direction of engineer-in-charge of the work etc. complete as per Architectural drawings.				
<b>H</b>	<b>STEEL REINFORCEMENT WORK</b>				
	Note :- Preparing Bar Bending schedule, obtaining consultant's approval, supplying, fabricating, delivering at site, hoisting and fixing in position and making all steel work in accordance with the design drawings prepared by the consultants.				
H 1	Supplying and fixing steel <b>reinforcement</b> deformed bars of high strength TMT reinforcement bars of FE 500-grade of high yield strength and percentage elongation, minimum 14.5% as per IS:1786 including decoiling, straightening, cutting, bending and placing in position at all levels and binding with approved (18 G) gauge binding wire. The rate to include cost of binding wire and cover blocks, laps, wastages, chairs-no extra payment is permissible for laps, wastage, chairs.	27.24	MT		
<b>I</b>	<b>STEEL WORKS</b>				
I 1	Providing and fixing <b>MS Window Grills</b> to rebate in Wooden frame/masonry using MS sections as per design drawings and details including painting with 2 coats of Synthetic Enamel Paint of approved colour and make over a coat of primer etc., complete	84.00	SQM		
I 2	Providing , fabricating and fixing in position <b>Staircase railing 1m high</b> , using MS Pipes, Flats, Rod of Section/Pattern as per drawing including cutting, drilling, bending, welding and fixing in position, Synthetic enamel painting two coats mixed with flat oil over a coat of anti corrosive Zinc Chromate primer, all as directed etc., complete all as per drawings	64.00	RMT		

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I 3	Providing and fixing in position <b>Collapsible steel shutters</b> with single or double leaf with vertical channel 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5cms openings at 10cms c to c applying a priming coat of red lead paint, two coats of enamel painting of approved colour, cost of all materials, labor, HOM of machinery complete as per specifications	3.00	SQM		
	Schedule of fittings: Handles :MS Handle Lock: Latch				
I 4	Providing and fixing <b>MS Z Angle windows and ventilators with guard bars 12x12mm at 100mm c/c</b> , window frame and shutter frame made to standard Z Angle sections as per ISI specification (ISS-1038, 1968), fixed to masonry with holdfasts embedded in PCC 1:3:6, shutter panels filled with glass of 4mm thick plain clear glass of approved make fixed with teak wood Aluminum channel beading, including providing and fixing of all fixtures/fittings, two coats Enamel paint of approved shade over primer/putty all as per directions / drawings etc, complete.	4.00	SQM		
I 5	Providing and Fixing in position <b>Balcony railing/Parapet railing</b> , using MS Hollow/Solid Sections of sizes/pattern as shown in drawing at all levels including welding for bracket and embedded to RCC slab, all as per directions/ drawings, painting with 2 coats of Synthetic Enamel Paint of approved colour and make over a coat of anti corrosive Zinc Chromate primer, putty work etc., complete.	RO	SQM		
J	<b>WEATHER PROOFING</b>				
	NOTE: All work/items mentioned here are to be executed by a specialist agency as per the specification approved by the architect. A ten year				

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	guarantee period on bond paper to be executed for satisfactory performance. Rates to include for work at all levels.				
J1	Prepare surfaces and <b>plastering surfaces of Sunken Portions</b> cement mortar 1:3, mortar mixed with WPC of approved make as per Manufacturers specifications with nominal slope towards weep hole including curing, finishing smooth as directed.	85.00	SQM		
J2	Providing and laying <b>integral cement based waterproofing treatment</b> including preparation of surfaces as required for treatment of roofs, balconies, terraces etc, consisting of following application (a) Applying and grouting a slurry coat of neat cement using 2.45kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. b) laying cement concrete using broken bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls up to 300mm height including rounding off junctions of walls and slabs.(c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proofing compound (d) Finishing the surfaces with 20mm thick joint less cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300 mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications	395.00	SQM		

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J3	Providing and laying Hydraulically pressed Clay <b>Weatherproof tiles in terrace</b> using tiles of approved make and size, set in 12 mm thick CM 1:4 mixed with water proof compound all as per Manufacturers specifications including cement slurry and pointing of joints with cement mortar 1:4 mixed with Red Oxide to match the tiles, curing, etc., complete.	RO	SQM		
J4	Providing and applying <b>Chemical Waterproofing (Brush Bond or Equivalent)</b> to RCC Slabs as per manufacturer's specification including cleaning of RCC Slab etc complete all as per drawing/instructions.	RO	SQM		
<b>K</b>	<b>ROAD AND PAVEMENT WORKS</b>				
K1	Providing and laying <b>precast interlocking cement tiles 65mm thick</b> of approved make/shade/design over a base of compacted layer of coarse sand and finished to levels by compacting vibrators and fine sand spread over the compacted surface to ensure all cavities are filled with and no movements of tiles are ensured, moping and brushing of excess sand on the surface done before use of paved area  Notes : a) Unless otherwise specified, rates quoted shall include the following Final preparing of base sub-grade including minor trimming of the base to remove slight undulations b) Protecting finished pavement flooring to prevent any damage till handing over	450.00	SQM		
K2	Providing, Fabricating and fixing <b>MS Gate</b> using Hollow sections/Solid Sections of size/pattern as per drawing –jointed mitered and electrically flash welded with Iron lugs, projecting hinges for Side hung shutters, including locking arrangements fixed to MS Plate, Painting with 2 coats of Synthetic Enamel Paint of approved colour and	12.00	SQM		

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	make over a coat of anti corrosive Zinc Chromate primer, putty work, etc., complete as per the drawings.				
K3	Providing and Fixing 300mm high <b>Cement Kerb Stone</b> using 100mm thick Concrete Kerb Block of approved quality including earth work, fixed with PCC 1:2:4, pointing to joints in CM 1:3 etc complete all as per instructions of architects.	65.00	RMT		
<b>L</b>	<b>MISCELLANEOUS WORKS</b>				
L1	Providing and injecting chemical emulsion for Pre-Constructional <b>Anti treatment</b> , creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with <b>chloropyriphos</b> including cost of chemical diluting in water etc. all as described in item no 13 of technical specification for civil works specification ( Plinth area of the building at ground floor only shall be measured for payment)	240.00	SQM		
L2	Providing and Filling with <b>cinder concrete</b> mixed with chemical water-proofing compound 1:3 to volume of cement and a proportion of 1:15 (1 cement : 15 cinder) complete in sunken portions of slabs etc., complete.	10.00	CUM		
L3	Providing & fixing <b>CI frame &amp; cover of size 600x600mm</b> for underground sump tank conforming to IS standards, including painting with 3 coats of anti-corrosive black bitumastic paint.	1.00	NOS		



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L4	Providing and fixing <b>125mm thick precast RCC slab ( of grade M20 – using design M ix) over drain</b> , fixed with cement mortar 1:4, including steel reinforcement, pointing with cement slurry, curing etc complete all as per instructions of architect/drawing..	15.00	SQM		
L5	Providing and Fixing 12mm gypsum board to GI framing in perfect level incl. Making grooves at the junction of ceiling & walls/columns/partitions etc. cut out for light fittings, AC grills etc. providing & fixing necessary GI/wooden frame supports for the above fixtures & additional suspenders to hang the same independently. GI frame to consist of proprietary supplied frames & as per mfg's recommendations suspended from dash fastners anchored to structural slab by means of G.I angels. Gypsum board fixed with proprietary supplied fixing devices & finished to receive paint. All complete. Ceiling profile as per Architects instructions & design.	35.00	SQM		
L6	Providing and fixing 18mmthk flame burnt " <b>sadarahalli stone tile</b> " with Machine cut straight edges on 1:3 CM bed over rough plastered surface with cement slurry and pointed (sunken pointing) with cement slurry mixed with approved pigment including setting against vertical and horizontal surfaces inclusive of jambs, scaffolding, curing, working at all heights etc complete. (Basic cost of stone Rs 50/sft).	40.00	SQM		
	<b>TOTAL COST OF CIVIL WORKS</b>				<b>RS.</b>

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<b>BILL OF QUANTITIES FOR PLUMBING AND SANITARY WORKS</b>			
<b>COST SUMMARY</b>			
Part	Description of Items	Unit	Total
Part - 1	SANITARY FIXTURES	Rs.	
Part - 2	WATER SUPPLY PIPING	Rs.	
Part - 3	SANITARY PIPING	Rs.	
Part - 4	RAIN WATER PIPING	Rs.	
	<b>TOTAL COST OF WORKS</b>	<b>Rs.</b>	
	<b>COST OF SEPTIC TANK ESTIMATE</b>	<b>Rs.</b>	
	<b>GRAND TOTAL OF PH WORKS</b>	<b>Rs.</b>	
	<b>SUMMARY OF EXCLUSIONS</b>		
<b>Sl.No.</b>	<b>Part</b>	<b>Following items of work is not included in the BoQ:</b>	
1		Drilling of Borewell water points, pumps for the same, cabling length from borewell pumps to the starter panel.	
2		RCC civil items like UG sumps not considered.	
3		Control panel, Cabling, Cable tray for the submersible pumps as they will constitute as a part of electrical works.	

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<b>PLUMBING AND SANITARY WORKS</b>						
<b>BILL OF QUANTITIES FOR GROUND &amp; FIRST FLOOR</b>						
Sl. No.	Code	Description of Items	Quantity	Unit	Rate	Amount
					Rs.	Rs.
<b>Part - 1A</b>		<b>SANITARY FIXTURES</b>				
1	<b>EWC-01</b>	Providing and fixing in position <b>Floor mounted European Water Closet</b> suite of approved make & colour, comprising of :	2	Nos.		
	a	Glazed vitreous chinaware Floor mounted European Water Closet of approved make & colour with wash down pattern having 'P' or 'S' trap conforming to IS: 2556-2 bearing ISI mark fixed to floor with necessary teak wood plugs & SS / Brass screws as per manufacturer's specifications, the outlet of water closet shall be connected to the soil stack using suitable rubber washer, including cutting / boring in walls / floors and making good the walls & floorings. etc. complete. Providing and fixing matching colour solid plastic seat & cover of approved make conforming to <b>IS: 2548</b> specifications and bearing ISI mark.				
	b	10 ltr capacity <b>PVC cistern</b> of vaccum operated with body and siphon made of PVC and fixed to wall with necessary brackets & plugs with 32mm CP or				

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		matching colour PVC flush bend, inlet connection to the cistern using full turn type 15mm CP brass angle stopcock with heavy casted CP brass wall flange of approved make & 12mm dia PVC flexible connection pipe with 600mm long, female threaded ends, rubber washers at both ends etc., Complete all as specified and directed with approved fittings.				
		<b>Material specification:</b>				
		Colour : White - EWC : Hindware - Slick - 20011/ Parryware - 226 / 225				
		Colour : White - Flush tank : Hindware - Sleek / Parryware - Slim line				
		Colour : White - Seat cover : Hindware / Parryware				
		CP - Angle cock : Jaquar - Continental - 053 / ESS ESS - Croma - 204				
		Colour : White -PVC connection pipe : Noway / Kohinoor				
2	<b>IWC-01</b>	Providing & fixing <b>Indian type water closet</b> suite (Orissa pan) with PVC 'P' or 'S' trap comprising of:	5	Nos.		
a		Glazed vitreous chinaware Orissa pan of approved make & colour of size 580x440mm with trap as mentioned above fixed in floor including cutting & making good the walls & floorings, etc.				
b		10 ltr capacity <b>PVC cistern</b> of vaccum operated with body and siphon made of PVC and fixed to wall with necessary				

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		brackets & plugs with 32mm CP or matching colour PVC flush bend, inlet connection to the cistern using full turn type 15mm CP brass angle stopcock with heavy casted CP brass wall flange of approved make & 12mm dia PVC flexible connection pipe with 600mm long, female threaded ends, rubber washers at both ends etc.,				
		<b>Material specification:</b>				
		Colour: White - IWC : Hindware - Orissa pan - 20004 / Parryware - Orissa pan - 0109				
		Colour: White - Flush tank : Hindware - Sleek / Parryware - Slim line				
		CP Angle cock : Jaquar - Continental - 053 / ESS ESS - Croma - C 204				
3	<b>CP - 01.6</b>	Providing & fixing in position approved make <b>full turn type, 15mm CP brass (Short body) bibtap</b> with heavy casted CP brass wall flange.	7	Nos.		
		<b>Material specification:</b>				
		CP Bibtap : Jaquar - Continental - 037 / ESS ESS - Croma - C 201				
4	<b>WB - 01.3</b>	Providing & fixing <b>rectangular wash hand basin</b> with pedestal of approved colour, comprising of :	10	Nos.		

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	a	Glazed vitreous chinaware wash hand basin of approved make of size 550x400mm and colour conforming to IS:2556 P4 with single tap hole & supported on CI brackets or GI rag bolts including matching pedestal of same make fixed to floor using screws etc., complete.				
	b	One 15mm <b>CP brass full turn pillar cock</b> and one 15mm CP brass full turn angle stop cock of approved make with necessary wall flanges and one 15mm PVC flexible inlet connection pipe 600mm long with CP brass nuts at both ends and necessary rubber washers complete.				
	c	One 32mm heavy quality CP brass waste coupling of approved make and conforming to IS specifications. 40mm PVC waste pipe with specials from extension piece of bottle trap to the floor trap, length not exceeding 1m concealed in the wall, including cutting and making good the floors and walls.				
		Complete all as specified and directed with approved fittings.				
		<b>Material specification:</b>				
		Basin : Hindware - Celo				
		CP, Pillar cock : Jaquar - Continental - 021 / ESS ESS - Croma C201				
		PVC pipe : Kohinoor / Noway / Parryware				
		CP - Angle cock : Jaquar - Continental - 053 / ESS ESS - Croma - C 204				

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		CP Waste coupling : Jaquar - Allied - 705 / ESS ESS - C -230A ( Full thread )				
5	<b>UR - 03.2</b>	Providing & fixing in position <b>urinals</b> comprising of:	6	Nos.		
	a	Glazed vitreous chinaware <b>small flat back urinal</b> of approved make & colour of size 600x400x375mm with necessary CI brackets & fixtures.				
	b	CP brass distribution pipe & spreader of approved make to the urinals with necessary CP brass screws, specials, clamps, etc., one for each urinal.				
	c	15mm n.b. <b>CP Push cock</b> of approved make conforming to IS specifications for each urinal.				
	d	One 32mm CP dome type waste coupling, one 32mm medium quality GI waste pipe with specials from extension piece to the floor trap length not exceeding 1m concealed in the wall, one 32mm heavy quality PVC waste pipe approved make.				
		Complete all as specified & directed with approved fittings.				
		<b>Material specification:</b>				
		Urinal : Hindware - 60002				
		CP, Spreader and elbow : Jal - 5814 / 5810				
		Push cock : CP, Jal - J311 / ARK - 303				
		PVC waste pipe : Kohinoor / Noway				

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6	<b>UR - 04</b>	Providing & fixing in position best quality jet black granite / <b>marble</b> (with basic rate of As. 125/sft) <b>partition slab for urinals</b> , of size 610x1150mm, 19mm thick, cut to shape as per design drawings, polished on both sides & machine cut, exposed edges bull-nosed and fixing the counter in CM 1:2 by neatly cutting the walls and embedding for a minimum of 50mm in the wall etc., complete	4	Nos.		
7	<b>A-03</b>	Providing & fixing in position CP double type coat & hat hook (robe hook) of approved make fixed to wall/shutter with necessary screws, washers & plugs etc., complete.	7	Nos.		
		Complete all as specified & directed with approved fittings.				
		<b>Material specification:</b>				
		CP, Robe hook : Jaquar-1161 / ESS ESS-C-416.				
8	<b>A-04</b>	Providing & fixing in position CP towel ring of approved make and diameter with bracket or flange fixed to wall with necessary screws, plugs, etc., all as specified & directed.	1	Nos.		
		Complete all as specified & directed with approved fittings.				



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		<b>Material specification:</b>				
		CP Towel ring : Jaquar - 1121 / ESS ESS - T -803				
9	<b>A-06</b>	Providing and fixing in position best quality approved make <b>bevelled edge mirror</b> of size as mentioned below mounted on 12mm thick water proof plywood backing and hardwood molded beading (Moulding of beading to be got approved by the architect) alround and mirror fixed to the backing with 4 Nos. of CP cap screws & washers, including fixing the mirror to the wall with necessary screws, plugs & washers etc., complete.				
		500mmX600mm	10	Nos.		
		<b>Material specification:</b>				
		Modi Guard / Saint Gobain / Asahi float				
		<b>Total for Part - 1B: Accessories</b>		<b>Rs.</b>		
<b>Part - 2</b>		<b>WATER SUPPLY PIPING</b>				

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1	<b>P-01.2</b>	Providing & Fixing of vertical <b>submersible/ centrifugal pump</b> of following capacity. Fixing the pump, providing delivery piping with GI pipes with wafer type non return valve, butterfly valve both of Audco / Intervolve / Hawa make with necessary flanges, nuts, bolts, rubber insertions (Piping and valves will be measured and paid under respective items of works) etc.. Making necessary electrical connections with flat submersible cables (including making power supply connection from mains to the pump control panel) shall be carried out by electrical contractor (Cost of electrical works is not to be included under this item), etc., complete.	1	Nos.		
	<b>i</b>	<b>To pump domestic water from sump to OHT</b>				
		Flow per pump	1.6	lps		
		Delivery Head	26	m		
		No. of Working pumps	1	Nos.		
		Control	Digital water level controller			
		<b>Suggested Model of pump</b>				
		Model	KOS-1525M*, 1.5HP			
		Make	Kirloskar			
		<b>Material specification :</b>				
		Pump : Darling / Kirloskar /CRI				

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2	<b>C-05.2</b>	Providing and fixing double layer rotational moulded vertical cylindrical water tank of capacity as mentioned below made from virgin grade PE polymer with inlet and outlet connections made using PVC / GI tank connectors of approved make, hoisting, transportation etc., complete.	4,000	Lts		
		Capacity of the tank – 2X2,000lts				
		<b>Material specification :</b>				
		Sintex / Polycon				
3	<b>V - 10</b>	Providing and fixing <b>stainless steel float valve</b> of approved make of following mentioned sizes, for water supply inlet pipe to under ground sump.				
	a	20 mm n.b.	1	Nos.		
		<b>Material specification :</b>				
		Float valves : Neta / Equivalent				

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4	<b>WS-01</b>	<p>Providing, laying, jointing, fixing, testing, painting, commissioning GI medium quality type 'B' Class pipe of approved make conforming to IS:1239 with a minimum weight as following, including cost of GI specials, cutting the pipes to the required lengths, threading, jointing the pipes, chasing the walls &amp; floors, making holes necessary in walls &amp; floors, clamping to walls / supports using fabricated MS brackets of approved design, MS threaded U clamps, HITECH pipe supports &amp; restoring the walls &amp; floors to the original conditions, necessary testing, refilling etc., complete all as specified and directed. The exposed pipes shall be painted with 2 coats of approved synthetic enamel paint over a coat of metal primer, including making the necessary colour bands as specified. The buried and concealed pipes shall be painted with 2 coats of anitcorrossive black bitumastic paint and buried pipes to be provided with sand around for 150mm thickness in the trench.</p>				
		<p>The entire piping system in part or as a whole has to be tested to a hydraulic test pressure of 7 kg/sq.cm for a period of not less than 24 hours. the piping shall be concealed after satisfactory testing of the system.</p>				
	<b>i</b>	<b>For Internal &amp; External Piping</b>				
	a	20mm	40	m		
	b	25mm	15	m		
	c	32mm	24	m		

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	d	50mm	25	m		
		<b>Material specification :</b>				
		GI pipes : Tata make - 'B' class				
		GI specials - 'R' brand / Unik				
5	<b>V-01</b>	Providing & fixing heavy quality <b>screwed gun metal full bore ball valve</b> of approved make and sizes as mentioned below. The operating ball shall be of SS or brass coated with chrome, set in PTFE or teflon seat with plastic encapsulated <b>operating lever</b> , including testing, making good the leakages etc., complete.				
	a	20 mm n.b.	1	Nos.		
	a	25 mm n.b.	2	Nos.		
	b	32 mm n.b.	4	Nos.		
	c	50 mm n.b.	4	Nos.		
		<b>Material specification :</b>				
		Ball valves : Zoloto / RB / Cimberio				
6	<b>V-03.1</b>	Providing & fixing <b>axial action type screwed reflux valve</b> (multi directional non return valve) of approved make and sizes as mentioned below, body of the valve shall be of forged brass, valve made of engineering plastic loaded with SS spring with NBR valve seat.				

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	a	50 mm n.b.	1	Nos.		
		<b>Material specification :</b>				
		Non return valves : Cimberio / RB / Itap				
7	<b>C-10</b>	Earthwork excavation for trenches in all kinds of soil to correct grade, level, including dressing of sides, ramming of bottom, shoring, strutting, dewatering, wherever necessary, backfilling with selected excavated earth, watering, consolidating in layers for all lifts & lead involved in the work.	2	m <sup>3</sup>		
		<b>Total for Part - 2 : Water supply piping</b>		<b>Rs.</b>		
<b>Part - 3</b>		<b>SANITARY PIPING</b>				
1	<b>SPA-01</b>	Providing & fixing in position <b>125mm deep PVC floor traps</b> of self cleansing design with outlet size of 75mm diameter of approved make, including making connection with PVC soil/waste pipes using rubber gaskets, embedding the trap in 150 mm thick PCC 1:2:4 and fixing of top tile & strainer of CP on top of the trap etc., complete all as specified & directed.	14	Nos.		
		<b>Material specification :</b>				
		Floor trap : Supreme / Prince				

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2	<b>CP - 07</b>	Providing and fixing in position <b>CP gratings</b> , of approved make of size 100mm with square flat cut slotted top grating, including setting the frame using CM 1:1 and finishing the surface of the frame with a depression from the tile level etc., complete.	14	Nos.		
		<b>Material specification :</b>				
		CP grating: Chilly SKG5, Sanitroking Gypsy square flat cut.				
3	<b>SP-01</b>	Providing & fixing in position under floor against wall in chases <b>PVC SWR drainage pipes</b> , specials of make as mentioned below of approved make conforming to <b>IS:13592</b> using lubricant as per manufacturer's specification, including cutting the pipes square to the required lengths, necessary excavation, chasing & restoring to the original condition, testing for water tightness etc., (Specials at junctions of lateral pipe & vertical stack must have access doors for inspection). The formation of pipe sockets by heating the pipe shall not be permitted the joints for plain ended pipes shall be made using couplers if necessary. Rate shall also include the cost of GI 'U' clamps to be provided at not more than 2.5m c/c for vertical pipes. The GI 'U' clamps shall be made of hot dip galvanized 6mm dia MS rod threaded at both ends and of length to suit the secure fixing of the pipe on the bracket of the clamping system with				

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		necessary nuts, plate washers and rubber insertions etc., complete.(4kgf pipes)				
i		<b>Type 'A' , Solvent cement joint-</b> for internal piping				
	a	75 mm OD	35	m		
	b	110 mm OD	12	m		
ii		<b>Type 'A' , Rubber ring joint-</b> For External vertical piping				
	a	75 mm OD	10	m		
	b	110 mm OD	10	m		
		<b>Material specification :</b>				
		PVC pipes : Prince/ Supreme/ Amitex				
4	<b>SP-01.1</b>	Providing & fixing in position under floor against wall in chases <b>Rigid PVC Pipes</b> , specials of make as mentioned below of approved make conforming to <b>IS:4985</b> using lubricant as per manufacturer's specification, including cutting the pipes square to the required lengths, necessary excavation, chasing & restoring to the original condition, testing for water tightness etc., (Specials at junctions of lateral pipe & vertical stack must have access doors for inspection). The formation of pipe sockets by heating the pipe shall not be permitted the joints for plain ended pipes shall be made using couplers if necessary etc., complete.				



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	<b>i</b>	<b>PN6 - Solvent cement joint</b>				
	a	40 mm OD - Internal piping	14	m		
		<b>Material specification :</b>				
		PVC pipes : Prince/ Supreme/ Amitex				
5	<b>SPA-07</b>	Providing & Fixing pipe support system for pipes using <b>Galvanized MS sheet metal brackets</b> of length as per details. The brackets shall be fixed to the wall at all levels at a distance not less than 2.5m c/c at all heights upto 10m above ground level with necessary scaffolding as necessary with 2 Nos of 8mm expansion fasteners having a safe working load of 150kg each with necessary nuts, washers etc.,complete. The brackets shall be installed true to plumb vertically with necessary insertions, spacer blocks etc as required etc., complete. The clamps shall be painted with 2 coats of approved synthetic enamel paint over a coat approved metal primer.	10	Kg		
		<b>Note:</b> The length of the bracket shall be equal to the sum of the outer diameters of all pipe and 50mm for working space per pipe of size 15 to 75mm and 100mm for working space per pipe for pipes of size 75mm and above diameters.				
		<b>Material specification :</b>				
		Galvanized MS sheet metal brackets: Kaveri				

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6	<b>SPA-04.1</b>	Providing & fixing best quality <b>salt glazed stoneware gully trap</b> of size 100mm square with 100mm outlet with funnel arrangement, embedded in plain cement concrete 1:4:8 (20mm metal), providing & fixing 100mm square CI grating on top of the trap, all the above encased in a chamber of 300x300mm built with 115mm thick brick masonry using first class country bricks in CM 1:3 over a bed of CC 1:4:8 using 40mm down size metal 100mm thick, plastering with CM 1:3, 13mm thick inside, exposed to surface, finished smooth with a floating coat of neat cement, providing & fixing CI frame & cover of size 300x300mm weight not exceeding 4.5 Kgs. etc., complete all as specified & directed.	2	Nos.		
		Complete all as specified & directed with approved fittings.				
		<b>Material specification :</b>				
		Stone ware pipes and fittings: Mysore / TSL				
		CI frame & covers : BIC/Neco				

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7	<b>SPA-05.2</b>	Construction of <b>inspection chamber</b> of internal clear dimension as mentioned below in 230mm thick brick masonry using first class country brick in CM 1:3, over a bed of 150mm thick CC 1:2:4 (20mm metal) & projecting 150mm around, plastering with CM 1:2, 13mm thick on internal, external, top surface, finished smooth with a floating coat of neat cement, CC 1:2:4 for benching, channeling, providing & fixing CI frame & cover as mentioned below conforming to <b>IS standards</b> , painting with 3 coats anti-corrosive black bitumastic paint. Encasing sewer connections to chamber with CC 1:2:4 etc., complete all as specified & directed.				
	a	450x450mm upto 600mm depth with CI frame & cover of size 4500x450mm Medium duty weight not exceeding 16 Kgs.	2	Nos.		
	a	600x600mm upto 900mm depth with CI frame & cover of size 600x600mm Medium duty weight not exceeding 32 kgs.	2	Nos.		
		<b>Material specification :</b>				
		CI frame & covers : BIC/Neco				
8	<b>SP-05</b>	<b>Salt glazed stoneware pipe of grade 'A' :</b>				
		Providing & fixing best quality approved make <b>salt glazed stoneware pipe of grade 'A'</b> & specials in trenches for all depths to correct grade, level & alignment including jointing with hemp yarn & CM 1:1 including testing, making good the				

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		leakages all as specified & directed.				
	a	100mm diameter	5	m		
	b	150mm diameter	20	m		
		<b>Material specification :</b>				
		Stone ware pipes and fittings: Mysore / TSL				
9	<b>C-10</b>	Earthwork excavation for trenches in all kinds of soil to correct grade, level, including dressing of sides, ramming of bottom, shoring, strutting, dewatering, wherever necessary, backfilling with selected excavated earth, watering, consolidating in layers for all lifts & lead involved in the work.	25	m <sup>3</sup>		
10	<b>C-11.1</b>	Providing & laying PCC 1:3:6 using 20 mm max. size graded granite stone aggregate obtained from approved quarry, compaction, finishing, curing for encasing of sewer line.	1	m <sup>3</sup>		
		<b>Total for Part - 3 : Sanitary piping</b>		<b>Rs.</b>		
<b>Part - 4</b>		<b>RAIN WATER PIPING</b>				

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1	<b>SP-01</b>	<p>Providing &amp; fixing in position under floor against wall in chases <b>PVC SWR drainage pipes</b>, specials of make as mentioned below of approved make conforming to <b>IS:13592</b> using lubricant as per manufacturer's specification, including cutting the pipes square to the required lengths, necessary excavation, chasing &amp; restoring to the original condition, testing for water tightness etc., (Specials at junctions of lateral pipe &amp; vertical stack must have access doors for inspection). The formation of pipe sockets by heating the pipe shall not be permitted the joints for plain ended pipes shall be made using couplers if necessary. Rate shall also include the cost of GI 'U' clamps to be provided at not more than 2.5m c/c for vertical pipes. The GI 'U' clamps shall be made of hot dip galvanized 6mm dia MS rod threaded at both ends and of length to suit the secure fixing of the pipe on the bracket of the clamping system with necessary nuts, plate washers and rubber insertions etc., complete.</p>				
i		<b>Type 'A', Rubber ring joint-</b> For External vertical piping				
	a	75 mm OD	3	m		
	b	110 mm OD	20	m		
		<b>Material specification :</b>				
		PVC pipes : Prince/ Supreme/ Amitex				

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2	<b>SPA-10</b>	Providing and fixing in position <b>CI / PVC grating</b> for inlet of rain water pipes at terrace level in CM 1:2, including making bores in the roof, setting in position and forming smooth rain water inlet gutter to direct rain water into the rain water pipe etc., complete all as specified and directed.				
	a	75x75mm	1	Nos.		
	b	110x110mm	7	Nos.		
		<b>Material specification :</b>				
		CI: BIC / Neco				
		<b>Total for Part - 4 : Rain water piping</b>		<b>Rs.</b>		

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<b><u>02 SEPTIC TANK &amp; ANAEROBIC UPFLOW FILTER</u></b>						
<b><u>SCHEDULE OF QUANTITIES</u></b>						
SL		DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
NO					Rs.	Rs.
1		Earth work excavation over in all kinds of soil including dewatering of subsoil water if any, disposal of excavated earth within a lead of 50m etc., complete.				
	a.	Lift 0 to 1.5m B.G.L.	30.78	Cu.m		
	b.	Lift 1.5 to 3.0m B.G.L.	30.16	Cu.m		
2		Providing & laying cement concrete 1:4:8 using 40mm nominal size graded hard granite stone aggregate including compaction, finishing top surface to level, curing etc., complete for mud mat.	2.05	Cu.m		
3		Providing & laying cement concrete using 20mm nominal size graded hard stone aggregate including compaction, finishing top surface to level curing etc., complete.				
	a	1:2:4 for flooring.	0.67	Cu.m		
4		Water proof cement plastering of 20mm thickness in CM 1:3 mixed with approved water proofing compound such as CICO or ACCOPROOF or equivalent as per manufacturer's specifications including scaffolding, curing etc., complete for inside	60.84	Sq.m		

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		surfaces of septic tank & up flow filter.				
5		Providing & laying reinforced cement concrete 1:2:4 (M 15) using graded hard granite stone aggregate of 20mm nominal size obtained from approved quarry including centring, shuttering, mechanical mixing, vibrating, compaction, finishing, curing, including cost of form work, labour for keeping embedments if any wherever required while concreting, deshuttering etc., complete for all items of concrete work.	7.27	Cu.m		
6		Providing & fixing precast RCC 1:2:4 using graded	1.54	Cu.m		
		hard granite stone aggregate of 20mm nominal size				
		obtained from approved quarry including mechanical mixing, centering, shuttering, compaction, finished smooth with 6mm thick cement plaster (1:3) on exposed surfaces, curing & fixing in position with CM 1:2 etc., complete.				
7		Providing & fixing in position stoneware pipes & specials for inlet, outlet, inter-connection & jointing in CM 1:1 curing etc., complete.				



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	a	150mm dia.	10.00	m		
	b	150mm bends / tees.	2.00	Each		
8		Supplying and fixing steel reinforcement deformed bars of high strength TMT reinforcement bars of FE 500-grade of high yield strength and percentage elongation, minimum 14.5% as per IS:1786 including decoiling, straightening, cutting, bending and placing in position at all levels and binding with approved (18 G) gauge binding wire. The rate to include cost of binding wire and cover blocks, laps, wastages, chairs-no extra payment is permissible for laps, wastage, chairs.	0.31	Tonne		
9		Providing & filling stone metal 75 & 40 mm size for an aerobic up flow filter as shown in drawing.	2.44	Cu.m		
10		Back filling with selected excavated earth in layers, watering, consolidation etc., as directed.	24.16	Cu.m		
11		Providing & fixing in position 100mm dia AC vent pipe with cowl on top.	3.00	m		
12		Providing & placing in position PCC 1:2:4, 300mm high, 400x200mm concrete blocks to support precast R.C. slabs for false flooring in up flow filter set in CM 1:3 as directed etc., complete.	15.00	Each		

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13		Providing brickwork in CM 1:3 & plastered in CM 1:5 for walls of inspection chambers and in pier for embedding 100mm dia AC vent pipe including scaffolding, curing, finishing etc., complete.	2.55	Cu.m.		
14		Providing 300x300x300mm granular activated carbon filter on top of vent pipe, fabricated using 14 gauge MS plate including painting, over primer, fixing in position with lugs, including one charge of 10kg GAC media etc., complete.	1.00	Each		
15		Site clearence pre and post construction.		Job		
			TOTAL		Rs.	

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<b>BILL OF QUANTITIES FOR INTERNAL ELECTRIFICATION WORKS.</b>		
<b>COST SUMMARY</b>		
SL.NO	DESCRIPTION	AMOUNT, RS.
A	WIRING SYSTEM	
B	M.V.DISTRIBUTION BOARD	
C	M.V.CABLES	
D	LIGHT FIXTURES	
E	TELEPHONE SYSTEM & DATA SYSTEM	
F	EARTHING SYSTEM	
	<b>TOTAL</b>	

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<b>ELECTRICAL WORKS</b>					
<b>BILL OF QUANTITIES FOR GROUND &amp; FIRST FLOOR</b>					
SLNO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>A</b>	<b><u>WIRING SYSTEM</u></b>				
1.0	<b><u>POINT WIRING</u></b>				
	Provide all materials, accessories, labour etc. for wiring for lights, ceiling fans, exhaust fans, 6A sockets (where 6A sockets are connected to the lighting circuit) using 1.5sqmm PVC insulated stranded copper conductor wires of 1100V grade drawn through heavy gauge rigid PVC conduit with 2mm wall thickness including supply and laying of conduits and its accessories above false ceiling using PVC pull/junction boxes, light outlet boxes, G.I.Switch outlet boxes, switch plates, 6A/16A one or two way switches, 6A switched socket etc., including testing and commissioning complete. The rate for point wiring shall include wiring from first switch point and then looping between the points. The rate shall also include the cost of providing 1no. 1.5sqmm PVC insulated copper conductor wire to connect all lights, switches sockets etc.				
1.1	One (1) light point controlled by a 6A piano key type switch	No	100		
1.2	Set of two (2) light points controlled by a 6A piano key type switch	No	0		
1.3	Wiring for ceiling fan point connected to lighting circuit and providing 6A switch, 5 speed step regulator, G.I box etc.	No	30		
1.4	Wiring for 6A socket outlet connected to lighting circuit and providing 6A shuttered type socket outlet with switch, G.I box etc.( Dependent socket)	No	26		
1.5	Wiring for 6A socket outlet away from lighting circuit and providing 6A shuttered type socket outlet with switch, G.I box etc. cost should include cost of lighting ckt. ( Independent socket)	No	R.O		

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1.6	Exhaust fan point (single phase) controlled by a 6A piano key type switch and 6A socket near exhaust fan.	No	10		
1.7	Lift shaft wiring including supply and fixing of Bulk Head with GLS Bulb, socket with switch, circuit etc as complete job	Set	RO		
1.8	One (1) light point controlled by 2 Nos. of 2 way 6A piano key type switch	Nos	2		
2.0	<b><u>LIGHTING CIRCUIT MAIN</u></b>				
	Providing all materials, accessories and labour for wiring with conduits and accessories for light / fan circuit main using PVC insulated stranded copper conductor wires of 1100V grade drawn through heavy gauge rigid PVC conduit using necessary conduit accessories, PVC pull / junction boxes, G.I fish wire etc. The rate shall include the cost of providing PVC insulated stranded copper conductor earth wire in each conduit along with other circuit main wires. The circuit main shall be measured in running metres from respective distribution board upto first switch point and looping between the switches.				
2.1	2 x 2.5sqmm + 1 x 1.5sqmm(earth) wires in 20mm dia PVC conduit	Rm	400		
3.0	<b><u>POWER CIRCUIT MAIN &amp; SUB MAINS</u></b>				
	-				
	Providing all materials, accessories and labour for wiring with PVC conduit and accessories for wiring 6A sockets, 6/16A sockets, 16/20A sockets single phase commercial / industrial type sockets using PVC insulated stranded copper conductor wires of 1100V grade drawn through heavy gauge rigid PVC conduit using necessary conduit accessories, PVC pull / junction boxes, G.I fish wire etc. The wiring cost shall include cost of wires, conduit and its accessories and earth wire. (The G.I outlet box and the socket measured separate).				
3.1	2 x 4.0sqmm + 1x 2.5sqmm (earth) wires in 25mm PVC conduit	Rm	125		
3.2	2 x 6.0sqmm + 1x 2.5sqmm (earth) wires in 25mm PVC conduit as supply to UPS In Industrial socket	Rm	50		

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	from COS Panel				
3.3	4x 10.0sqmm + 1x 4sqmm (earth) wires in 32mm PVC conduit as supply to Sub Main to MCB DB from COS Panel	Rm	50		
	<b>Note: Item No. 3.3 can change as per the position of COS Panel</b>				
4.0	<b><u>POWER RECEPTACLES</u></b>				
	-				
4.1	Supply and installation of 6/16A, 5pin, combination type shuttered switched socket outlet with indicator lamp and G.I or moulded plastic outlet with indicator lamp and G.I or moulded plastic cover plate as required including the termination of wires.	No	3		
4.2	Supply and installation of gang of three (3) 6A, round pin type, switched socket outlet controlled by a 16A DP switch with G.I or moulded plastic cover plate as required including the termination of wires. - UPS POINT	No	20		
4.3	Supply and installation of 32A,3/5 pin industrial type socket outlet with SP MCB control enclosed in sheet metal box with 32A plug top wall mounted with necessary accessories complete as required for UPS In & Out Socket	No	2		
	<b>TOTAL CARRIED OVER TO THE SUMMARY</b>				
<b>B</b>	<b><u>M.V.DISTRIBUTION BOARDS</u></b>				
	-				
	Supply, installation, testing and commissioning of M.V.Distribution Boards suitable for 415V, 3 phase, 4 wire, 50Hz distribution system. The panel shall be free standing, sheet metal enclosed, flush front with separate earth bus shall be provided throughout the length of the DB. The DB should be factory made with necessary MCB & ELCB.				
1.1	MCB DB				
	Incommer				
	One (1) - 63A, TPN, MCB				
	Out going				
	One (1) - 40A, TPN, MCB				
	Three (3) - Outgoing feeders each having 25A DP				

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	ELCB - 30mA				
	Twelve(12) Nos -6/16A MCB				
	DB as above	No	2		
1.2	UPS DB				
	Incommer				
	One (1) - 40A, DP MCB				
	Out going				
	Eighteen(18) Nos -6/16A MCB				
	DB as above	No	1		
1.3	Change Over Panel & Metering Panel				
	Supply, installation, testing & commissioning of COS Panel made of 16 SWG CRCA Sheet with seimens grey powder coating, comprising of Below items,				
	Provision of CT operated 3 Phase meter with CT chamber,RYB Indicator and 100A 4 Pole MCCB				
	100A Change Over Switch - Make HPL - 1 No.				
	4 wired 100A Al.Busbar				
	EB & DG Indicator with switch				
	63A 3 Pole MCB - 5 Nos.				
	63A 2 Pole MCB - 5 Nos				
	Panel as above	No	1		
	<b>TOTAL CARRIED OVER TO THE SUMMARY</b>				
<b>C</b>	<b><u>M.V.CABLES</u></b>				
1.0	Providing, laying, testing and commissioning of 1100V grade XLPE insulated and sheathed steel wire/ tape armoured aluminium conductor cable / PVC insulated and sheathed steel wire/ tape armoured aluminium conductor cable for mains and sub mains as per specifications and drawings. The cables shall be laid in concrete trenches or buried directly underground or on cable trays. The concrete trenches will be measured separate. The cost of the cable trays or ladders, excavation and back filling of trenches will be measured separate. the unit cost of the cable shall include clamps, fasteners etc. as required for proper installation.				
1.01	4C x 25 sqmm A2XFY cable( Aluminum 2 cross linked flat conductor with outer PVC sheath )	Rm	100		

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2.0	Provide and install cable terminations for the above cables including single compression type chrome plated brass glands and lugs(crimping type), PVC taping as required and all accessories complete.				
2.01	4C x 25 sqmm A2XFY ( Aluminum 2 cross linked flat conductor with outer PVC sheath )	No	4		
	<b>TOTAL CARRIED OVER TO THE SUMMARY</b>				-
<b>D</b>	<b>LIGHT FIXTURES</b>				
1.0	Supply of light fixture. The rate shall include for fittings along with transformers where required, diffuser, chokes, starter, power factor improvement capacitors, wires, downrods etc., complete with all accessories to complete the installation as required. The rate shall also include the cost of the lamps. The fluorescent lamp shall be the Trulite high efficiency lamps. The ballasts are electronic.				
1.1	1 x 36W box type wall mounted light fixture. Make : Philips TMS520/136HF or eq	No	60		
1.2	1 x 18W CFL recessed spot light fixture. Make : Philips FBS085 1xPLC/2P18W RG FR or eq	No	9		
1.3	1 x 18W CFL surface spot light fixture. Make : Philips FCS518 2xPLS/2P9W I 240V	No	12		
1.4	Mirror Light Fixture	No	6		
1.5	300mm wide exhaust fan Make : rally/CG	No	10		
1.6	1200mm ceiling Fan Make : CG/Havels/Khaitan	No	30		
1.7	14W CFL Bulk Head with 1 x 14 watt CFL	No	8		
2.0	<b>Receive, Store, installation, testing and commissioning</b> of following type of light fixtures as per drawings and specifications with all other accessories such as supporting rods / frames, anchor fasteners, necessary hardware etc.(lighting fixtures are supplied by the bank)				
2.1	1 x 36W box type wall mounted light fixture. Make :	No	RO		



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	Philips TMS520/136HF or eq				
2.2	1 x 18W CFL recessed spot light fixture. Make : Philips FBS085 1xPLC/2P18W RG FR or eq	No	RO		
2.3	1 x 18W CFL surface spot light fixture. Make : Philips FCS518 2xPLS/2P9W I 240V	No	RO		
2.4	Mirror Light Fixture	No	RO		
2.5	300mm wide exhaust fan Make : rally/CG	No	RO		
2.6	1200mm ceiling Fan Make : CG/Havels/Khaitan	No	RO		
2.7	14W CFL Bulk Head with 1 x 14 watt CFL	No	RO		
	<b>TOTAL CARRIED OVER TO THE SUMMARY</b>				-
<b>E</b>	<b>TELEPHONE SYSTEM &amp; DATA SYSTEM</b>				
1.0	Providing and laying of heavy gauge rigid PVC conduit with all conduit accessories PVC junction/pull boxes, G.I fish wire, fixing accessories etc as required for telephone and data networking complete. The rates shall include chasing of walls, floors etc & plastering the chased portion as required.				
1.1	25mm dia	Rm	200		
1.2	32mm dia	Rm	R.O		
2.0	Supply and laying of 2 pair 0.51mm Telephone cable in existing conduit	Rm	100		
3.0	Supply, fixing & termination Tel Jack with necessary Jack, face plate & back box etc	Nos	4		
4.0	Supply and laying of CAT 6 cable in existing conduit with necessary termination	Rm	600		
5.0	Supply, fixing & termination I/O Port with necessary port, face plate & back box etc	Nos	20		
	<b>TOTAL CARRIED OVER TO THE SUMMARY</b>				
<b>F</b>	<b>EARTHING SYSTEM</b>				

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1.0	Providing, installing, testing and commissioning of GI pipe earthing station including excavation, back filling, 100mm diameter GI pipe of 2.5m long, construction of inspection chamber, chamber cover (C.I), disconnecting link etc. as per specifications and in conformity with IS 3043 (latest).	No	2		
3.0	Providing and laying earthing conductors of GI strip/wire including insulation and necessary accessories, clamping to walls, cables etc. as required and interconnection between lengths as per specifications and as per good installation practice. The rate shall include all supports, accessories and hardware necessary for proper installation.				
3.1	8 SWG G.I wire	Rm	50		
	<b>TOTAL CARRIED OVER TO SUMMARY</b>				