

**TENDER**

**FOR**

**Construction of Blood Bank, X – Ray  
Room & Mortuary Blocks at Thaluk  
Hospital, Sulthan Bathery, Wayanad**

**PART-III  
PRICE BID**

**TENDER NO. HLL/ID/15 /21**

**August 2015**

**HLL LIFECARE LIMITED  
INFRASTRUCTURE DEVELOPMENT DIVISION**

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## **1 COMMERCIAL CONDITIONS**

### **1.0.1 THE ABSTRACT OF BILL OF QUANTITIES IN THE PRICE BID SHALL BE INVARIABLY FILLED. THOSE WHO BIDDERS DO NOT FILL WILL BE NON-RESPONSIVE AND WILL BE DISQUALIFIED FROM EVALUATION AND WILL BE TREATED AS TECHNICALLY NOT QUALIFIED.**

1.0.2 The tendered rate shall inter alia be deemed to include for the provision of all materials, process, operation and special requirements detailed in the particular specification irrespective of whether these are mentioned in the description of equipment schedule and Bill of quantities or not. It is an express condition of the contract that the tendered rates for various items in the Bill of Quantities shall be deemed to include for the full, entire and final condition of the contractor respective items of the works in accordance with the provision of the contract.

1.0.3 The tendered rate shall include for all taxes, duties, etc. as applicable and shall be quoted on the works contract basis for the **Construction of Blood Bank, X – Ray Room & Mortuary Blocks at Thaluk Hospital, Sulthan Bathery, Wayanad**. The tendered rate shall remain firm and free from variation due to rise in the cost of materials/equipment, labour or any other reasons whatsoever during the contract period and valid extension on the case may be.

1.0.4 The quantum of excise duty included in the tendered price, the rate at which they were assumed etc. shall be indicated in the tender.

## **1.1 UNIT RATES**

1.12 Only approved work will be measured on completion and priced as per rates quoted against the respective items.

## **1.2 BRIEF DESCRIPTION OF PRICING**

- 1.2.1. Unforeseen difficulties for which provision has not been made in the tender will in no way relieve the successful tenderer from the full execution of the work.
- 1.2.2 The price quoted shall be the final amount for this finished work.
- 1.2.3 The quoted price shall be inclusive of all taxes and duties whether payable by the contractor or to be deducted at source. This shall include those applicable among VAT, Sales Tax, Income Tax, Customs Duty, Excise Duty, Turnover Tax, Service Tax, Work Contract Tax, Octroi, Labour Welfare Cess or any other Taxes and Duties prevailing in respect of this contract. **ANY BID STATING THAT TAXES ARE EXTRA WILL BE SUMMARILY REJECTED.**

### **1.3 INCOME TAX**

Any payment to the contractor as per contract will be made after deducting income tax as per the rules and regulations.

### **1.4 SALES TAX AND EXCISE DUTY**

The tenderer shall clearly indicate sales tax, Excise and other duties as applicable in his offer for carrying out this work.

### **1.6. SUBMISSION OF BILL**

- 1.6.1. The contractor shall from time to time prepare and submit interim bills of the work executed and on completion of the contract, he shall prepare and submit the final bill. The measurements sheets in support of the interim and final bills shall be prepared by the contractor on the basis of measurements taken by him jointly with the project engineer and the said measurement sheets shall be submitted by him with the relevant bill.
- 1.6.2. Within the above frame work of the terms of payment the contract's interim bills will have to be of a minimum value of Rs.25.00 Lakhs only.

### **1.7. EXTRA ITEMS**

The contractor is bound to carry out any items of work necessary for the completion of the job even though such items may not have been included in the schedule of probable quantities or rates, such items being necessary or essential for completing

the job. Variation order in respect of such additional items and their quantities will be issued in writing by the employer.

- 1.7.1 All shavings, cuttings and other rubbish as it accumulates from time to time during the progress of work and on completion including that of the sub-contractors and special tradesman and all materials condemned by the project engineer shall be cleared and removed from the site by the contractor without any extra charge.
- 1.7.2 All measuring steel taps, scaffolding, ladders instruments and tools that may be required for taking measurements shall be supplied by the contractor.

## **1.8. OVER TIME WORK**

If the contractor is required to work night or on holidays in order to maintain the time schedule he shall take prior approval from the Engineer-in-charge. He should also provide and maintain at his own cost sufficient lights as may be necessary to enable the work to proceed satisfactorily during the night.

- 1.8.1. The contractor shall give full facilities to all other contractors working on site. He shall also arrange his programme of work so as not hinder the progress of other trades. The decision of the Engineer-in-charge on any point of dispute between the various parties shall be final and binding.
- 1.8.2. It is specifically pointed out that the contractor shall not be entitled to any compensation whatsoever on account of delay in procurement or supply of controlled materials and the rates quoted in the contract are fixed till the completion of the contract.
- 1.8.3. The contractor shall co-operate with other agencies appointed by the owners for the work to proceed smoothly with the least possible delay and to the satisfaction of the owners, architects and the consultants.
- 1.8.4. The owners shall provide a source for power supply at one convenient point at site. The contractor shall at his own cost install a separate meter at the said source and lay additional cables from the said source also at his own cost. For the electricity consumed by the contractor he shall pay the owner the actual cost at the rate charged

by the local authority for power for constructional purposes. The contractor shall also obtain the necessary permit for utilizing power for constructional purpose

## **2. SPECIAL CONDITIONS**

### **2.1. EXECUTION OF WORK**

2.1.1. The whole of the work as described in the contract (including bills of materials, specification and all drawings pertaining thereto) and as advised by the Engineer-in-charge from time is to be carried out and completed in all parts to the entire satisfaction of the Employer. Any minor details of construction which are obviously and fairly intended, or which may not have been definitely referred to in this contract, but which are usual construction practice and essential to the work, shall be included in this contract.

### **2.2. CERTIFICATE OF COMPLETION**

2.2.1 The contractor shall intimate to the Engineer-in-charge in writing as and when the works are completed and put into beneficial use in order to enable the consultants to check certify to the owners to take over the plants.

2.2.2 The work shall not be considered as completed and put into beneficial use until the consultants have certified in writing that the same has been completed and put into beneficial use.

2.2.3 The defects liability period shall commence from date of such completion or any specific date mentioned therein.

**ALL ROWS SHALL BE FILLED, THIS IS MANDATORY  
(IF NIL OR NA, THAT MAY ALSO BE SHOWN)**

**BILL OF QUANTITIES**

**ABSTRACT**

<b>Sl. No.</b>	<b>Item</b>	<b>Amount</b>
Part I	CIVIL WORKS	
Part II	ELECTRICAL WORKS	
a)	Service tax component to be paid by the bidder	
b)	Service tax component to be directly paid by the HLL in case the bidder is a Proprietary firm	
	<b>GRAND TOTAL [INCLUDING 100% SERVICE TAX (a +b)]</b>	

**Signature of the Bidder with date**

**CONSTRUCTION OF MORTURY,BLOOD BANK& X-RAY UNIT FOR THQH SULTHAN BATHERY IN WAYANAD DISTRICT**

**PART I - CIVIL WORKS**

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
	<b>EARTH WORK</b>				
1	Clearing jungle including uprooting of rank vegetation, grass, brus wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	sqm	1650.00		
2	Earth work in excavation over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed. (a) All kinds of soil	Cum	810.00		
3	Earth work in excavation by mechanical means (Hydraulic Excavator )/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	Cum	716.00		



SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
4	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.All kinds of soil.	Cum	9.00		
5	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	580.00		
6	Supplying and filling in plinth with quarry dust under floors including watering, ramming, consolidating and dressing complete.	Cum	70.00		
7	Supplying conveying ,spreading and rolling quarry muck including cost of conveyance charges etc., complete	Cum	39.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
	<b>PLAIN CEMENT CONCRETE</b>				
8	Cement concrete(Cast-in-situ) Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering- All work upto plinth level 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum	96.00		
9	Providing and laying damp proof coarse with cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20mm nominal size) including and applying a coat of residual petroleum bitumen of penetration of penetration 80/100 of approved quality using 1.7 kg per square metre on damp proof coarse after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil 50mm thick	Sqm	43.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
	<b>REINFORCED CEMENT CONCRETE</b>				
10	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.All works upto plinth level	Cum	233.00		
11	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.All works above plinth level upto floor V level for walls	Cum	221.50		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
12	Reinforced cement concrete work in walls (any thickness) including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc upto floor V level including cost of centering, shuttering, finishing and excluding cost of reinforcement in 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) For dummy columns	Cum	8.75		
13	Providing M-30 grade concrete instead of M-25 grade BMC / RMC. (Note:- Cement content considered in M-30 is @ 340 kg/ kg/cum)	Cum	454.00		
14	Centering and shuttering including strutting, propping etc. and removal of form for				
a	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	821.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
b	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	758.00		
c	Suspended floors, roofs, landings, balconies and access platform	Sqm	1060.00		
d	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	560.00		
e	Stairs, (excluding landings) except spiral-staircases	sqm	47.00		
15	Reinforcement for RCC works including straightening, cutting, bending, placing in position and binding all complete. Thermo - Mechanically treated bars (Using Vizac, Tata or SAIL)	Kg	51300.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
	<b>BRICK WORK</b>				
16	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :Cement mortar 1:4 (1 cement : 4 coarse sand	Cum	318.00		
17	Half Brick masonry with FPS bricks of class designation 75 in superstructure above plinth level upto floor V level in cement mortar 1:4 (1 cement: 4 coarse sand)	Sqm	75.00		
18	Extra providing and placing in position 2 nos.6mm dia MS bars at every third course of half brick masonry (with F P S Bricks)	Sqm	75.00		
	<b>STEEL WORK</b>				
19	Providing and fixing stainless steel 12mm dia bar bent to shape with hooked ends in R.C.C. slabs during laying including, all as per standard design complete.	Each	50.00		
20	Providing and fixing M.S grills of required pattern in frames of windows etc with M.S.flats,square or round bars etc all complete:- Fixed to openings/wooden frames with rawl plugs screws etc	Kg	740.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
21	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes	Kg	660.00		
22	Supplying and fixing 1.10m height hand rails for stair cases with 2 Nos. polished stainless steel tube of outer diameter 50mm at top and bottom with wall thickness not less than 1.60mm as per SS 304 vertical members of 50mm diameter pipe 1.00m length (approximately) welded together at 1.50m center to center and providing and fixing 2 nos 32 mm outer diameter stainless steel tube horizontally between the top and bottom tubes including fixing with steel nuts and bolts as per the direction of the Engineer - in - charge. Hand rails shall be fixed in the floor/steps with expansion hold fasters of required size including drilling etc. complete.	Kg	175.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
23	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters:80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sqm	6.00		
24	Providing and fixing ball bearing for rolling shutters.	Each	2.00		
25	Extra for providing grided rolling shutters manufactured out of 8 mm dia. M.S. bar instead of laths as per design approved by Engineer-in-charge.(area of grill to be measured).	Sqm	3.60		



SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
26	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer	sqm	10.00		
	<b>WOOD WORK</b>				
27	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position :	Cum	0.30		
28	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. Second class teak wood	Sqm	11.00		
29	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick Second class teak wood	Sqm	11.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
30	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand: 6 graded stone aggregate 20mm nominal size).	Each	24.00		
31	Providing and fixing bright finished brass handles with screws etc. complete:100 mm	Each	8.00		
32	Extra for providing and fixing 2mm thick lead lining over inner side of the door shutter including all fixing accessories and fixuurse etc complete	Sqm	8.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
	<b>ALUMINIUM WORKS</b>				
33	<p>Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/panelling. C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately):</p> <p>For fixed portion Powder coated aluminium (minimum thickness of powder</p>	Kg	505.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
34	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/panelling. C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately):For shutters of doors, windows & ventilators including providing and fixing hinges / pivots and making	Kg	610.00		
35	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	Each	32.00		
36	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/neoprene gasket etc. complete as per the architectural drawings and directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.5 mm thickness	Sqm	35.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
37	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/neoprene gasket etc. complete as per the architectural drawings and directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 4.0 mm thickness	Sqm	53.00		
38	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).	Sqm	20.00		
39	Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS12823 Grade 1 type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P brass/ stainless steel screws etc. complete as per architectural drawings and directions of engineer in charge Pre laminated particle board with decorative lamination on both sides	Sqm	25.00		
40	Providing and fixing 8mm thick bison panel for panelling fixed in aluminium doors, windows shutters and partition frames with C.P brass/ stainless steel screws etc. complete as per architectural drawings and directions of engineer in charge	sqm	11.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
41	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge With stainless steel cover plate	Each	12.00		
42	Providing and fixing IS : 3564 marked Aluminium die cast body tubular type universal hydraulic door closer with necessary accessories and screws etc. complete	Each	19.00		
43	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete. Single rubber stopper	Each	47.00		
44	providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete: 250 x 10 mm	Each	39.00		
45	Providing and fixing aluminium powder coated handles 200mm long with necessary screws etc. complete :	each	74.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
46	Providing and fixing window handles with necessary screws etc. complete-	Each	83.00		
47	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.Powder coated minimum thickness 50 micron aluminium tubular handle bar.	Each	16.00		
	<b>PVC DOOR WORKS</b>				
48	Providing and fixing factory made UPVC door frame of Rajashri or equivalent make made of UPVC extruded section having an overall dimension as. Below(tolerance+1mm) with wall thickness 2.0mm+/-0.2mm, corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joint mitred plastic wilded. the hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19x19mm and 1mm +/- 0.1mm wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge:Extruded section Profile size 42x50mm.	RM	32.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
49	Providing and fixing to existing door frames.30mm thick factory made Rajashri or equivalent make Polyvinyl Chloride(PVC) door shutter and rails of a UPVC profile section of size 30mmx60mm and wall thickness 2mm+/-0.2mm with inbuilt decorative moulding edging on one side. The styles and rails with plastic brackets of size 75x220mm mitre and welded at the corners. The-styles of the shutter reinforced by inserting galvanized M.S. tube of size 25x20mm and 1mm+/-0.1mm wall thickness. The lock rail made up of 'H' section, a UPVC profile section of size 30mmx100mm and 2mm+/-0.2mm wall thickness welded to the shutter style with a UPVC profile section single panel of size not less than 620mm,having overall thickness of 20mm and 1mm+/-0.1mm wall thickness with 20mm panel beading of suitable size, as per manufactures specification and direction of Engineer-in-charge.	Sqm	12.00		
	<b>FLOORING WORKS</b>				
50	Providing and laying polished vitrified floor tiles of minimum size 600x600mm of thickness 10mm or nearest size of M/s. JOHNSON, KAJARIA, NITCO, SOMANY or equivalent in light colours and shades, with water absorption's less than 0.08% and conforming to IS:15622, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with cement and matching pigments etc, complete as directed by the Engineer-in-charge.	Sqm	568.00		



SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
51	Providing and laying anti skid ceramic floor tiles of minimum 400x400 mm size for toilets (7.5mm thickness or nearest size) M/s. JOHNSON, KAJARIA, NITCO, SOMANY or equivalent of 1st quality conforming to IS: 15622 of approved make in all colours, shades, except white, ivory, grey, fume red brown laid on 20mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc complete.	Sqm	63.00		
52	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 of minimum 350x250 mm size and thickness 5MM of JOHNSON, NITCO, ORIENT, , KAJARIA ,or approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	450.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
53	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels. Granite of any colour & Shade	Sqm	38.00		
54	Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.	RM	75.00		
55	Providing and laying 60mm thick factory made cement concrete interlocking paver blocks of M - 30 grade made by block making machine with strong vibratory compaction and of approved size and design/shape laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with coarse sand etc all complete as per the direction of Engineer in charge.	Sqm	170.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
	<b>ROOFING WORKS</b>				
56	Providing corrugated G.S. sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.0.63 mm thick with zinc coating not less than 275gm/ m²	Sqm	76.00		
	<b>FINISHING WORKS</b>				
57	12mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix 1:4 ( 1 cement : 4 fine sand)	Sqm	835.00		
58	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	Per bag of 50 kg cement used	155.00		
59	6mm cement plaster to ceiling of mix 1 : 3 (1 cement : 3 fine sand )	Sqm	1040.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
60	12mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement : 4 fine sand)	Sqm	2000.00		
61	15 mm cement plaster on rough side of single or half brick wall of mix:1:4 (1 cement : 4 coarse sand)	Sqm	1750.00		
62	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade in two or more coats on new work, including finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications: Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm	Sqm	3040.00		
63	Finishing walls with Acrylic Smooth exterior paint of required shade: –New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including basecoat of water proofing cement paint applied @ 2.20 kg/ 10 sqm)	Sqm	1750.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
64	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	Sqm	150.00		
65	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :	Sqm	98.00		
66	Steel Work painting- Painting with synthetic enamel paint of approved brand and manufacture to give an even shade. Two or more coats on new work	Sqm	190.00		
	<b>INTERNAL WATER SUPPLY &amp; SANITORY INSTALLATIONS</b>				
67	Providing and fixing white vitreous china pedestal type water closet ( <b>European type W.C. pan</b> ) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid	Each	13.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
68	Providing and fixing wash basin with C.I/ M.S brackets, 15mm C.P. brass pillar taps Kingston/ Gem/ Techno/ Parko/Jaguar, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls and floors wherever require: White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	Each	15.00		
69	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required	Each	2.00		
70	Providing and fixing unplasticised PVC connection pipes with brass unions 30 cm length 15mm nominal bore	Each	18.00		
71	Providing and fixing waste pipe for sink, wash basin or urinals including PVC waste fittings complete:Semi Rigid Pipe-32mm diameter	Each	18.00		
72	Providing and fixing stainless steel scurb 1200x400x600mm with C.I brackets and stainless steel plug 40mm including painting of fittings and brackets ,cutting and making good the walls wherever required a)Scub with drain board	Each	1.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
73	Providing and fixing 600x450mm bevelled edge <b>mirror</b> 5mm thick of superior glass(of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P.brass screws and washers complete.	Each	13.00		
74	Providing and fixing C.P towel rail complete with brackets fixed to wooden cleats with C.P.brass screws with concealed fittings arrangement of approved quality ,size and make	Each	17.00		
75	Providing and fixing S.S soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements. Weighing not less than 106 gms.	Each	20.00		
76	Providing and jointing PVC 63mm PVC pipes of (pressure 6 kg/cm <sup>2</sup> ) for drainage line including testing of joints etc complete. (Sullage Down pipe) 63mm diameter (OD)	RM	300.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
77	Providing and jointing PVC 75mm PVC pipes of (pressure 6 kg/cm <sup>2</sup> ) for drainage line including testing of joints etc complete. (Sullage Down pipe) 75mm diameter (OD)	RM	120.00		
78	Providing and jointing PVC110mm PVC pipes of (pressure 6 kg/cm <sup>2</sup> ) for drainage line including testing of joints etc complete. (Sullage Down pipe) 110mm diameter (OD)	RM	450.00		
79	Providing and fixing unplasticised-P.V.C pipes clips of approved design to unplasticised-P.V.C rain water pipes by means of 50 x 50 x 50 mm hard wood plugs, screwed with M.S screws of required length including cutting brick work and fixing in cement mortar 1 : 4 (1 cement : 4 coarse sand) and making good the walls etc. complete 110mm	Each	75.00		
80	Providing and jointing PVC110mm PVC pipes of (pressure 4 kg/cm <sup>2</sup> ) for drainage line including testing of joints etc complete. (Rain water Down pipe) 110mm diameter (OD)	RM	170.00		
81	Providing and jointing PVC110mm PVC bend of (pressure 4 kg/cm <sup>2</sup> ) for drainage line including testing of joints etc complete. (Rain water Down pipe) 110mm diameter (OD)	Each	75.00		



SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
82	Providing and jointing PVC110mm PVC TEE of (pressure 4 kg/cm <sup>2</sup> ) for drainage line including testing of joints etc complete. (Rain water Down pipe)	Each	60.00		
83	Providing and fixing wall face PVC pipe complete including cutting, chasing in walls and making good the walls etc complete.				
a	<b>25mm PVC pipe (10kg/sqcm)</b>	RM	80.00		
b	<b>32mm PVC pipe (10kg/sqcm)</b>	RM	135.00		
c	<b>50mm PVC pipe (10kg/sqcm)</b>	RM	150.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
d	63mm PVC pipe (10kg/sqcm)	RM	150.00		
84	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: 110mm inlet and 110mm outlet pvc	Each	38.00		
85	Providing and fixing PTMT (an Engineering thermo plastic ) grating of approved quality colour and make 150 mm nominal size square,100mm diameter of the inner hinged round grating. Rectangular type with circular round lid	Each	37.00		
86	Providing and fixing <b>CP brass long body bib cock</b> of approved quality confirming to IS standards weighing not less than 690gms 15mm nominal bore	Each	16.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
87	Providing and fixing C.P brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore With long Handle	Each	1.00		
88	Providing and fixing C.P. brass shower rose with 15 to 20 mm inlet 100mm diameter	Each	6.00		
89	Providing and fixing C.P brass stop cock (concealed) of standard design of approved make conforming to IS 8931. conforming to IS standards 15 mm nominal bore	Each	23.00		
90	Providing and placing on terrace (at all floor levels) poly ethylene water storage tank ISI: 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and over flow pipes but with out fittings and the base support for tank	Litres	3000.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
	<b>DRAINAGE WORKS</b>				
91	Constructing brick masonry <b>manhole</b> in cement mortar 1:4 (1 cement: 4 coarse sand) RCC top slab with 1:2:4 mix (1 cement:2 coarse sand:4 graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1 cement:4 coarse sand:8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 fine sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design: Inside size 90x80cm and 45cm deep including CI cover with frame (light duty) 455x610mm internal dimensions total weight of cover and frame to be not less than 38kg(weight of cover 23kg and weight of frame 15kg) with Class 75 F P S bricks.	Each	9.00		
92	Making soak pit 2.5 m diameter 3.0 meter deep with 45 x 45 cm dry brick honey comb shaft with bricks of class designation 75 and SW drain pipe 100 mm diameter, 1.8 m long complete as per standard design :-	Each	2.00		
93	Constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	Each	2.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
94	Providing and jointing PVC 150mm PVC pipes of (pressure 6 kg/cm <sup>2</sup> ) for drainage line including testing of joints etc complete. <b>For sewage connection &amp; Rain water collection &amp; disposal</b> 150mm diameter (Nominal)	RM	150.00		
95	Supplying and fixing C.I. cover without frame for manholes 455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	Each	5.00		
96	Providing and fixing <b>gun metal gate valve</b> with CI wheel of approved quality(screwed end) -				
a	25mm PVC pipe (10kg/sqcm)	Each	6.00		
b	32mm PVC pipe (10kg/sqcm)	Each	4.00		
c	50mm PVC pipe (10kg/sqcm)	Each	3.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
97	Providing and fixing pvc 10 kg bend of specified diameter including cutting and finishing etc.complete				
a	63mm PVC pipe (10kg/sqcm)	Each	20.00		
b	75mm PVC pipe (10kg/sqcm)	Each	15.00		
c	110mm PVC pipe (10kg/sqcm)	Each	25.00		
98	Providing and fixing pvc 10 kg TEE of specified diameter including cutting and finishing etc.complete				
a	63mm PVC pipe (10kg/sqcm)	Each	15.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
b	75mm PVC pipe (10kg/sqcm)	Each	10.00		
c	110mm PVC pipe (10kg/sqcm)	Each	15.00		
99	Providing and fixingpvc 10 kg PVC bend with access door of specified diamenters including cutting and finishing etc.complete				
a	63mm PVC pipe (10kg/sqcm)	Each	20.00		
b	75mm PVC pipe (10kg/sqcm)	Each	10.00		

SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
c	110mm PVC pipe (10kg/sqcm)	Each	20.00		
100	<p>Providing and fixing at all heights false ceiling of 8mm thick PVC hollow sheet including providing and fixing of frame work made of special section power pressed from MS sheet and galvanazied in accordance with zinc coating as per IS :277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm c/c one flange fixed to the ceiling with dash fastner 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of (25x25x0.50)mm of required length and other end of the angle hanger being fixed with nuts &amp; bolts to GI channels (45 x 15 x 0.90 )mm running at the rate of 1200mm c/c to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm c/c shall be fixed in a direction perpendicular to GI chanel with connecting clips made out of 2.64mm dia x 230mm long with GI wire at every junction including fixing the PVC sheet with ceiling section and perimeter chanel 0.50mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of</p>	sqm	60.00		
	<p>square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting</p>				



SL No	Description	Unit	Quantity	Rate in figures and words (Rs.)	Amount (Rs.)
	TOTAL - PART I - CIVIL WORKS				
	GRAND TOTAL = PART I - CIVIL WORKS + PART II - ELECTRICAL WORKS				

**Construction of Mortuary Block for THQH at Sultan Bathery, Wayanad District**

**PART II - ELECTRICAL WORKS**

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
1	Point wiring in PVC conduit, with Modular type switch: Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required	Point	55		
2	Circuit Sub main wiring in PVC Conduit : Wiring for circuit sub main wiring alongwith earthwire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
a	2x1.5 sq mm +1x1.5 sq. mm earth wire	Rm	200		
b	2x2.5 sq mm +1x 2. 5 sq.mm earth wire	Rm	300		
c	2x4 sq mm +1x 4 sq.mm earth wire	Rm	275		

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
d	4x6 sq mm + 2x6 sq mm earth wire	Rm	30		
e	4x10 sq mm + 2x10 sq mm earth wire	Rm	30		
3	Supplying and drawing following pair 0.5 sq mm FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
a	2 Pair	Rm	100		
4	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	Rm	25		
5	S/F PVC conduit : Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
a	20 mm	Rm	100		
7	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required.				
a	200mm x 150mm x 60mm deep	Each	2		
8	S/F Modular type switch/ socket : Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc as required.				
a	Telephone socket outlet	Each	5		
b	TV antenna socket outlet	Each	1		

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
9	Supplying and fixing electronic fan regulator : Supplying and fixing stepped type electronic fan regulator on the existing modular plate and switch box excluding modular plate but including connections etc as required.	Each	11		
10	S/F Modular type blanking plates : Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	12		
11	S/F Modular boxes, base & cover plate : Supplying and fixing following size/ modules,GI box along with modular base, cover plate for modular switches in recess etc as required.				
a	1 or 2 module( 75 mmx75 mm)	Each	20		
12	S/F light plug point modular type accessories : Supplying and fixing suitable size G. I box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection,painting etc as required, (For light plugs to be used in non residential buildings }.	Each	25		

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
13	S/F Power plug point with modular type switch : Supplying and fixing suitable size G. I box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 15/16& 5/6 amps modular socket outlet and 15/16 amps modular switch, connection,painting etc as required.	Each	10		
14	S/F Ceiling rose : Supplying and fixing 3 pin , 5 amps ceiling rose on the existing junction box / wooden block including connection etc as required.	Each	33		
15	ITC Fluroscnt fitting directly on surface : Installation testing and commissioning of pre- wired, fluroscnt fitting/ compact fluroscnt fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq mm FRLS PVC insulated, copper conductor, single core cable and earthing etc as required.	Each	30		
16	Providing and fixing extra conduit down rod of 20 mm dia, 2 X 10cm length wiring with 2 X 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10cm and 5 cm or less shall be ignored)	Each	20		

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
17	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length { Up to 30 Cm } with 1.5 sq mm FRLS PVC insulated, copper conductor, single core cable as required.	Each	11		
18	Extra down rod 15 mm dia : Supplying and fixing extra down rod of 10 Cm length G. I pipe, 15 mm dia, heavy guage including painting etc. as required ( Note: More than 5 Cm length shall be rounded to the nearest 10 Cm and 5 Cm or less shall be ignored)	Each	22		
19	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
a	Upto 450 mm sweep	Each	6		
20	S/F TPMCB DB : Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar.				

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
a	6 way (4 + 18), Double door	Each	2		
21	Supplying and fixing of following ways surface / recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper busbar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB and incomer) as required.				
a	4 way, Double door	Each	1		
22	S/F 'C' series, MCB : Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a	Single pole	Each	25		



S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
b	Triple pole	Each	2		
23	S/F SP MCB blanking plate : Supplying and fixing single pole blanking plate in the existing MCB DB complete etc as required.	Each	11		
22	S/F FP MCB isolator : Supplying and fixing following rating, four pole, 415 Volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a	40 amps	Each	2		
24	S/F FP RCCB : Supplying and fixing following rating, four pole, 415 volts, residual current circuit breaker { RCCB }, having a sensitivity current up to 300 milli amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
a	25 amps	Each	1		
b	40 amps	Each	1		
25	S/F 20A SPN MCB industrial socket outlet : Supplying and fixing 20 amps, 240 Volts, SPN industril type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps 'C' series, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.	Each	5		
26	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
a	Upto 35 sq. mm (clamped with 1mm thick saddle)	Rm	20		

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
27	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
a	4 X 10 sq. mm	Each	2		
b	4 X 16 sq. mm	Each	2		
28	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Set	2		
29	Providing and fixing 4 mm dia copper wire on surface or in recess for loop earthing along with existing surface / recessed conduit / submain wiring / cable as required.	Each	40		

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
30	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Rm	20		
31	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Rm	10		
32	Supply and making cable route marker with cement concrete 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20mm nominal size) of size 60 cm x 60 cm at the bottom and 50 cm x 50 cm at the top with a thickness of 10 cm including inscription duly engraved as required.	Each	10		
33	Providing, laying and fixing 100mm dia GI pipe (medium class) in ground complete with GI fittings including trenching (75cm deep) and re-filling etc as required.	Rm	10		

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
34	Providing, laying and fixing 150mm dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75cm deep) and re-filling etc as required.	Rm	10		
35	Supply of 1x28W, indoor surface mounted fluorescent Luminaire made of CRCA sheet steel housing with 28W Tube, electronic ballast, lamp holder, prewired complete with all necessary accessories suitable for operation on 230V, 50Hz AC supply as required (Bajaj BTER 128 / Crompton T5JB1328REB9/ Havells LHFYBYF1ON1W028)	Each	28		
36	Supply of compact & decorative energy efficient mirror light luminaire with anti-glare diffuser and end cap with 11W CFL lamp and all required accessories as required. (Bajaj BJC 111 / Havells LHFOECF1OZ1W011 )	Each	3		
37	Supply of 1200 mm sweep min three star rated ceiling fan complete with motor, double ball bearing, blades, canopy, 30 cm down rod and without speed regulator suitable for 230 V 50 HZ, AC supply confirms to IS 374/1979 as required complete. (Usha Technix Star Rated / Crompton High Breeze Plus / Havells ES-50 Premium 5).	Each	11		

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
38	Supply of 250mm sweep, 1250 rpm, louvered ventilating fan suitable for single phase 230 volt, 50Hz AC supply complete with motor, capacitor, louvers/ shutters and all accessories as required complete. (Usha Crisp Air / Crompton cross air / Havells Ventil Air-DX WHT)	Each	3		
39	Supply of heavy duty exhaust fan 450 mm sweep, single phase, 950 rpm of approved colour including all accessories as required (Crompton HDEF / Usha Turbo heavy duty / Havells Turbo Force)	Each	2		
40	S/F PVC Holder with lamp: Supplying and fixing ISI marked PVC angle batten holder with 11W CFL lamp including all connection etc as required.	Each	4		
41	Supply & installation of 10 pair telephone terminal box (PVC/sheet steel) with 1 no. 10 pair krone IDC module and SS BMF with all accessories.	Each	1		

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
42	Supply and installation of Decorative compact street light luminaire with 36W CFL lamp in epoxy powder coated sheet aluminium housing, gear tray, clear acrylic cover including all accessories. The light fitting shall be wired with 3x1.5 sq mm PVC insulated copper wire. The light fitting shall be mounted on suitable size & length fabricated GI pipe. (Bajaj BJS LA 136 CFL WEB1 / Crompton SCE1336 / Havells LHRC02136025)	Each	4		
43	Supply of following size 1.1 KV grade XLPE insulated, PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (Part 1) amended upto date.				
a	4 X 10 sq. mm	Rm	20		
b	4 X 16 sq. mm	Rm	20		

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
44	Supply, installation, testing and commissioning of Air Cooled High Wall mounted Split Air Conditioner of following capacity consisting of high wall mounted type room unit (fan coil) with cordless remote control and one number outdoor condensing unit comprising of energy efficient suitable rotary compressor for operation on single phase, 230 V, 50Hz supply, fixing the outdoor unit on a raised platform as per manufacturers recommendation and fixing of room (fan coil) unit on wall, upto 5 m distance refrigerant copper piping with 13mm nitrile rubber insulation, providing and making interconnection between room & condenser as per site conditions, comprising of 1" dia drain PVC pipe with insulation 5m, canvas connections, full electrical cabling from power plug near indoor unit and to				
	1 TR 5 Star Rated as per BEE	Each	1		



S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
45	Supply, Installation, Testing & Commissioning of LT panel, cubicle type, made out of 2mm thick CRCA sheet, totally enclosed, IP42, free standing, floor mounting, dust and vermin proof, powder coated, indoor, compartmentalised, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system, including internal wiring with suitable size wires, rotary handle, spreaders, 3mm thick gland plate, hinged type door with neoprene gasket etc. The panel shall include supply & installation of following switchgears, metering instruments and accessories as per specification.				
	Incomer				
	1no 160A, TPN, AC23A, 415V, 50Hz switch disconnecter fuse unit with suitable size Din type HRC fuse as per load.				
	BusBar				
	1 Set of 200A TPN busbars of high conductivity electrolytic quality Aluminium alloy.				
	1 Set of 25 x 3 mm copper busbars of high conductivity electrolytic quality shall be provided throughout the panel for its earthing.				
	Instruments				
	1 No 3 phase Digital Multi function meter to read V, A, F, Acc class 1.				
	1 Set of phase indicating lamps, LED type, RYB.				
	1 Set of 2A 10kA C curve SP control MCB				

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
	1 Set of 160/5A, Class 1.0, 10VA, Cast Resin CT				
	OutGoings				
	1no 125A, TPN, AC23A, 415V, 50Hz switch disconnecter fuse unit with suitable size Din type HRC fuse as per load.				
	4 nos. 63A, TPN, AC23A, 415V, 50Hz switch disconnecter fuse unit with suitable size Din type HRC fuse as per load.				
	2 nos. 32A, TPN, AC23A, 415V, 50Hz switch disconnecter fuse unit with suitable size Din type HRC fuse as per load..	Each	1		
46	Supplying and fixing 63 amps, TP, 415 volts, "C" curve, miniature circuit breaker suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Each	1		
47	Supply & laying ISI marked electrical grade chequered type rubber mat of size 2m x 1m x 6 mm suitable for 415V power supply.	Each	2		

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
48	Supply, Installation, Testing & Commissioning of Three phase meter box, cubicle type, made out of 2mm thick CRCA sheet (powder coated), Polycarbonate / SMC, totally enclosed, outdoor type totally enclosed, IP54, wall / floor mounting, dust and vermin proof, compartmentalised, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system including internal wiring with suitable size wires, rotary handle, spreaders, 3mm thick gland plate, hinged type door with neoprene gasket etc. The panel shall include supply & installation of following switchgears, metering instruments and accessories as per specification.				
	SWITCHGEAR & OTHER ACCESSORIES				
	Space provision for accomodating 3 phase CT operated energy meter from KSEB with all connections, glass view panel, control MCB, lockable compartment etc.				
	3 nos. Suitable ratio CT (as per KSEB) with Acc. Class 0.5, 10VA in lockable compartment.				
	3 nos 160A rewirable type bakelite fuse unit with 1 no. Neutral link.				
	1 no. 160A, FP, AC23A, 415V, 50Hz switch disconnector fuse unit with Din type HRC fuse of suitable rating (as per KSEB) in separate cubical.				

S.No	Item Description	Unit	Qty	Rate in figures and words (Rs.)	Amount (Rs.)
	The meter board shall have 200 Amp TPN busbars of high conductivity electrolytic quality Aluminium alloy, earth bus of required size, 4P terminal connectors, control wiring with all required accessories complete.	Each	1		
	<b>TOTAL - PART II - ELECTRICAL WORKS</b>				