



**Doctors For You, India
(DFY India)**

Bid Document

**Doctors For You Request for Proposal (RFP) For Interior & Modification works,
Mechanical Works at HBCH & RC, Muzaffarpur, Pin No: 842004, District: Muzaffarpur.**

Ref. No.: DFY/26-27/05/48/TEN03

Doctors For You

**Flat No - 201/203, Building Number – 22,
Lallubhai Compound, Mankhurd,
Mumbai-400043, Maharashtra, INDIA**

Email: purchase.department@doctorsforyou.org

Website: www.doctorsforyou.org

Registration No. F-56886(Mum.)

Address: Flat No. 201-203, Building No.22, Lallubhai Compound, Mankhurd, Mumbai-400043.

Helpline: +91-82618 90890

E-mail: info@doctorsforyou.org • Website: www.doctorsforyou.org

GST Number: 27AAAJD0785H1ZA



**Doctors For You Request for Proposal (RFP) For Interior & Modification works,
Mechanical Works at HBCH & RC, Muzaffarpur, Pin No: 842004, District: Muzaffarpur**

Key Bidding Information

Bid Ref No.	DFY/26-27/05/48/TEN03
Name of the Project	HDFC Bank
Date of Commencement of Download of Bidding Documents	21 st May 2026 www.doctorsforyou.org
Last Date and Time for Receipt of Request for Clarifications	05 th June 2026 till 04:00 PM purchase.department@doctorsforyou.org
Last Date & Time for Submission of Bids	06 th June 2026 till 01:00 PM purchase.department@doctorsforyou.org
Date & Time for Opening of Bids	07 th June 2026 at 01:00 PM



Bid Document

Doctors For You invites the bids from agencies/vendor for Interior & Modification works, Mechanical Works at HBCH & RC, Muzaffarpur, Pin No: 842004, District: Muzaffarpur.

1. Doctors For You (DFY), is a registered society, registered under the Societies Registration Act 1860 Section 21 having registration no. F-56886(Mum). DFY is a pan India humanitarian organization with international presence and is working in various disaster hit zones since last 19 years. DFY focuses on providing medical care to the vulnerable communities during crisis and non-crisis situation, emergency medical aid to people affected by natural disaster, conflicts and epidemics. We are also committed to reducing disaster risk to human society by delivering trainings and capacity development in emergency preparedness and response. The work of DFY is guided by humanitarian principles of humanity, impartiality, and neutrality. It offers services and assistance to people based on need, irrespective of race, class, caste, religion and gender.

Doctors For You invites the bids from agencies/vendors for the Interior & Modification works, Mechanical Works at HBCH & RC, Muzaffarpur, Pin No: 842004, District: Muzaffarpur

2. The detail of requirement has been given in Section III.
3. DFY hereby invites bids (through email or hardcopy at email id (purchase.department@doctorsforyou.org) or address (Doctors For You' Flat no. G6/312 Pocket – D, Ganga Apartment Vasant Kunj, Delhi – 110070) from eligible and qualified Bidders for the Interior & Modification works, Mechanical Works at HBCH & RC, Muzaffarpur, Pin No: 842004, District: Muzaffarpur.
4. Bidding will be conducted through 'Tender Enquiry' method and procedures as per DFY's procurement policy.
5. Interested agencies/vendors provide their bid price on a per unit basis. The final payment will be based on the deliveries as per the timeline given.
6. Vendors are requested to submit their detailed specifications and financial quotations, including all applicable taxes, transportation, installation, commissioning, and other associated costs.
7. Doctors For You may coordinate with the vendor for any clarifications regarding the submitted quotations, if required, within 4 days from the tender opening date.
8. Bidders can bid for one or multiple items at a time.
9. The Bid Document can be freely downloaded from the website www.doctorsforyou.org Starting from **21st May 2026**. Bidders shall be solely responsible for checking the above website for any addendum/amendment issued subsequent to publication of this Invitation for Bids and take the same into consideration while preparing and submitting their bids.
10. **Bids must be submitted on or before 01:00 PM on 06th June 2026 by Bidders** through email or hardcopy through courier
11. **The Bids will be opened on 07th June 2026 at 01:00 PM.**

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SECTION – I INSTRUCTIONS TO BIDDERS

A. INTRODUCTION	
1. Documents Establishing conformity of Goods and Services to Bidding Documents	1.1 The Bidder shall furnish as part of its Bid the documentary evidence that the Goods/services conform to the technical specifications and standard specified in Scope of work. The documentary evidence of conformity of the goods and services to the Bidding Documents may be in the form of brochure / technical literature. 1.2 GST and Income Tax registration certificates.
2. Cost of Bidding	2.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Purchaser will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
B. THE BIDDING DOCUMENTS	
3. Clarification of Bidding Documents	3.1 A prospective bidder requiring any clarification regarding specification, required services and conditions of contract/agreement, etc. given in the document may submit a written request for clarifications to by email up to 16:00 hours on 05th June 2026 at email id: purchase.department@doctorsforyou.org
C. PREPARATION OF BIDS	
4. Documents Constituting the Bid	4.1 The Bid shall comprise two parts submitted simultaneously, one part containing the Bid and the other part containing the Financial Bid. 4.2 At first, the Technical Bids shall be opened at the time and date specified in the Table – Key Information given at page no-2 4.3 The Technical Bids shall be evaluated first by the Purchaser. The Technical Bids which do not conform to the specified requirements will be rejected as technically non-responsive/disqualified Bids. 4.4 Financial Bids of technically qualified Bids shall be opened by the Purchaser at a later date and time communicated to all technically qualified bidders. The Financial Bids shall be evaluated for all requirements and the Contract shall be awarded to the Bidder who has been determined to be the lowest evaluated substantially responsive Bidder for full requirement. 4.5 The Financial Bid submitted by the Bidder shall comprise the duly filled-in Price Schedule, in accordance with the forms indicated in Section IV.

5. Bid Prices	5.1 The Bidder shall indicate on the Price Schedule as per the format of Price Schedule given in Section IV. 5.2 The rate quoted should be both in words and figures. No figure or word should be overwritten. Correction if any should be rewritten under the full signature of the person signing the bid. 5.3 The prices quoted by the bidder should be on a firm and fixed basis during the performance of the contract, except for duties and taxes on finished goods. A bid submitted with an adjustable price quotation will be treated as non-responsive and will be rejected.
6. Currencies of Bid	6.1 Prices shall be quoted in Indian Rupees only.
7. Period of Validity of Bids	7.1 Bids shall remain valid for the period of 30 days after the date of bid submission specified in the document. 7.2 In exceptional circumstances, prior to the expiry of the original bid validity period, the Purchaser may request that the Bidders extend the period of validity for a specified additional period. The request and the responses there to shall be made in writing.
8. Alternative Proposals by Bidders	8.1 Alternative bids shall not be accepted. The bidder should not submit more than one bid.
9. Format and Signing of Bid	9.1 The bids consisting of the documents listed in this document shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. 9.2 Any interlineations, erasures, or overwriting to correct errors made by the Bidder should be initiated by the person or persons signing the bid.
D. Submission of Bids	
10. Sealing and Marking of Bids	10.1 Bidders need to submit their bids electronically through email ID : purchase.department@doctorsforyou.org or can send hard copy through courier at 'Doctors For You' Flat no. G6/312 Pocket – D, Ganga Apartment Vasant Kunj, Delhi – 110070.

11. Deadline for Submission of Bids	11.1 Bids must be received by the Purchaser no later than the time and date as specified in the Table – Key Information on page no. 2 of the Bid Document. 11.2 In event of the specified date for the submission of Bids being declared a holiday for the Purchaser, the Bids will be received up to the appointed time on the next working day. 11.3 The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with ITB Sub-Para 7.2, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
12. Modification and Withdrawal of Bids	12.1 The bids can't be withdrawn or altered after the due date and time for the submission of bids.
E. OPENING AND EVALUATION OF BIDS	
13. Bid Opening	13.1 The financial bids shall be opened by the Bid Opening Committee of DFY's through an online platform or in the presence of committee members
14. Clarification of Bids	14.1 During the evaluation of the bids, the Purchaser may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted, except to correct arithmetic errors identified by the Purchaser in the evaluation of the bids.
15. Examination of Bids and Determination of Responsiveness	15.1 The Purchaser's determination of the responsiveness of a Technical Proposal is to be based on the contents of the Technical Proposal itself. 15.2 The Purchaser will examine the technical bids to determine whether they are complete, whether the documents have been properly signed, and whether the bids are generally in order. 15.3 The Purchaser may waive any minor informality, nonconformity, or irregularity in a bid that does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

16. Evaluation and Comparison of Bid	<u>Preliminary Evaluation of Bids</u>The Purchaser shall examine the Technical Proposal to confirm that all documents and technical documentation requested in RFP have been provided, and to determine the completeness of each document submitted. 16.1The Purchaser shall confirm that the required documents and information have been provided in the Technical Proposal. 16.2Likewise, following the opening of Price Proposals, the Purchaser shall examine the Price Proposals to confirm that all documents and financial documentation have been provided and to determine the completeness of each document submitted. <u>Evaluation of Price Bids</u> 16.3 The Purchaser shall evaluate Price Proposals of each Bid for which the Technical Proposal has been determined to be responsive. 16.4 The Purchaser's evaluation of a bid will take into account the total cost of the requirement inclusive of all duties, taxes, and other charges 16.5 The contract shall be awarded only to the bidder who is substantially technically responsive, offer the lowest rate. 16.6 The Purchaser shall compare all substantially responsive bids to determine the lowest evaluated bid.
F. AWARD OF CONTRACT	
17. Award Criteria	Pursuant to ITB Clause 17, the Purchaser will award the Contract to the Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid.
18. Purchaser's Right to Accept Any Bid and to Reject Any or All Bids	The Purchaser reserves the right to accept or reject any bid or to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to the affected Bidder or Bidders. No reason for such action of Purchaser shall be given.

SECTION II.

General Conditions of Contract/ Order

1. Packing	1.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract.
2. Delivery and Documents	2.1 Documents to be submitted to the purchaser: - Upon the delivery of the Goods, the Supplier shall notify the Purchaser in writing and deliver to the Purchaser the following documents i. One original and one copy of the commercial invoice, indicating the DFY as the Purchaser, the Contract/order number, Goods' description, quantity, unit price, and total amount. Invoices must be signed in original and stamped or sealed with the company stamp/seal. ii. One original Acknowledgement of receipt of Goods/Final Acceptance by DFY.
3. Warranty	3.1 Bidder assigns and passes through to Purchaser the Manufacturer warranties on all "consumer products" as per company warranty term, wherever applicable. 3.3 Supplier shall be provided comprehensive maintenance warranty for all refurbishment, renovation work / Goods, supply for 1 year from the date of work completion. In case of any claim arising out of this warranty, the purchaser/consignee shall promptly notify the same in writing to the supplier. 3.4 Upon receipt of such notice, the supplier shall, with all reasonable speed repairs or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods after providing their replacements and no claim whatsoever shall lie on the purchaser for such replaced parts/goods thereafter.
4. Payment	4.1 The method and conditions of payments to be made to the supplier shall be paid upon under this contract shall be mutually agreed upon and documented prior to contract award.



5. Prices	5.1 Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid for the duration of the Contract. Prices shall be fixed and firm for the duration of the Contract. However, GST (as and when applicable) payable shall be paid as applicable at the time of supply.
6. Work/Goods Completion Timeline	6.1 The proposed Work/Goods must be completed within 45 days after issuing the contract/agreement or as per Purchase Order (PO)/Work Order (WO).
7. Liquidated Damages	If the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the contract prices as liquidated damages, a sum equivalent to the 0.5 percent per week or part thereof of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the 10 percent of the value of delayed Goods. Once the maximum is reached, the Purchaser may consider termination of the contract.
8. Completion	8.1 The Supplier must notify the Purchaser's Representative in writing as soon as it considers that the Works have reached the stage of Substantial Completion. 8.2 Final Completion Certificate Supplier's obligations will not be considered to have been completed until the Purchaser's Representative has issued the Final completion Certificate to the Supplier, stating the date on which the Supplier completed its obligations under the Contract/Agreement. The Purchaser's Representative must issue the Final Completion Certificate within 10 days of the written notification of completion of work by the supplier.
9. Jurisdiction	All disputes arising out of the contract shall be subject to the jurisdiction of the appropriate court at New Delhi, India, only.

Section III

Technical Specifications

1. Civil Work

Sr No	Description	Unit	QTY
1	Dismantling & Demolishing		
1.1	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	cum	5.00
1.2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.		
1.2.1	In cement mortar	cum	20.00
1.3	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.		
1.3.1	For thickness of tiles 10 mm to 25 mm	sqm	200.00
2	Excavation & Backfilling		
2.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth, lead up to 50m and lift up to 1.5m, as directed by Engineer-in-Charge.		
2.1.1	All kinds of soil	Cum	100.00
2.2	Excavating, supplying and filling of local earth (including royalty) by mechanical transport up to a lead of 5 km, also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc., complete.		
2.2.1	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.		
2.2.2	All kinds of soil.	Cum	150.00
3	Brick Work		
3.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:		
3.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	15.00
3.2	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 :		
3.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	40.00
3.3	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.		

3.3.1	Cement mortar 1:4 (1 cement :4 coarse sand)	Cum	30.00
4	Concrete & Reinforcement Work Work		
4.1	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	5.00
4.2	Centering and shuttering including strutting, propping etc. and removal of form for		
4.2.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	100.00
4.3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.		
4.3.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	500.00
4.4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :		
4.4.1	1:3:6 (1 Cement : 3 coarse sand(zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	10.00
5.0	Finishing Work		
5.1	12 mm cement plaster of mix :		
5.1.0	1:6 (1 cement: 6 fine sand)	sqm	50.00
5.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	sqm	350.00
5.3	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre. of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats.	sqm	350.00
5.4	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work.	sqm	200.00
5.5	Finishing walls with textured exterior paint of required shade :		
5.5.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @2.20kg/10 sqm.	Sqm	150.00
6.0	Flooring & Tiling Works		
6.1	Providing and fixing 1st quality ceramic glazed wall tiles conforming	sqm	80.00

	toIS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.		
6.2	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.		
6.2.1	Glazed Vitrified tiles Matt/Antiskid finish of size		
6.2.1.1	Size of Tile 600 x 600 mm	sqm	25.00
6.3	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.		
6.3.1	Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	sqm	30.00
7.0	Roofing, & Cladding		
7.1	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.		
7.1.0	1.5 mm thick.	Sqm	300.00
7.2	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm		

	made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc.		
7.2.1	Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.		
7.2.2	GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation and backed with a black Glass fiber acoustical fleece.	Sqm	200.00
7.3	Providing and fixing in position factory made EPS cement sandwich wall/ roof/ floor light weight solid core panels made of core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum) adhesive, cement, sand, flyash and other bonding material in mortar state processed to form in a preset mould. The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each. Panel shall be laid on 6mm thick cement mortar (1 cement: 2 fine sand) mixed with chemical adhesive of 0.5kg per 50kg of cement or shall be preferably fixed into 'C' channel made of 1.2mm thick MS plate screwed/fastened to the slab/column/beam etc. The panel shall fixed vertically with tongue and groove joint and horizontally locked with steel bar between each other and floors and filled with cement mortar and adhesive. Panels should be used as floor & roofing with additional structural support, steel or RCC depending upon the design.		

7.3.1	All the operation shall be completed in all respect as per drawings, Manufacturers specifications and under the overall direction of Engineer-in-Charge (Cost of all the material is included except "C channel" which will be paid seperately).		
7.3.2	Non load bearing panels 50mm thick of required size	Sqm	300.00
7.4	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre,		
	shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's 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 drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :		
	12.5 mm thick tapered edge gypsum moisture resistant board.	Sqm	50.00
8.0	Plumbing Works		
8.1	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :		
8.1.1	250 mm dia. R.C.C. pipe	metre	15.00
8.2	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls		

	wherever required :		
8.2.1	Kitchen sink without drain board 610x510 mm bowl depth 200 mm.	Each	2.00
8.3	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931:	No	6.00
8.4	Providing and fixing PTMT grating of approved quality and colour. 125 mm nominal dia with 25 mm waste hole.	No	6.00
8.5	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore	Each	15.00
8.6	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour. 15 mm nominal bore with 45 cm length	Each	11.00
8.7	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	Each	4.00
8.8	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.		
8.8.1	Single pushfit Coupler :		
8.8.1.1	75mm	Nos	15.00
8.8.1.2	110mm	Nos	15.00
8.8.2	Single tee with door		
8.8.2.1	75x75x75 mm	Nos	5.00
8.8.2.2	110x110x110 mm	Nos	5.00
8.8.3	Bend 87.5°		
8.8.3.1	75 mm bend	Nos	5.00
8.8.3.2	110 mm bend	Nos	5.00
8.9	Providing and doing core cutting in RCC slab, walls & Deck sheet at given location as per requirements with sealing of core with sealant including necessary tools and machinaries, scaffolding, watering, rate also included carting away the debris from site time to time or disposing the material as directed by Engineer-In-charge	Nos	5.00
8.10	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.		
	(i)Single socketed pipes.		
8.10.1	75 mm diameter	m	50.00
8.10.2	110 mm diameter	m	25.00
8.11	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls		

	wherever require:		
8.11.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	4.00
8.12	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. :Concealed work, including cutting chases and making good the walls etc.		
8.12.1	15 mm nominal outer dia .Pipes.	m	25.00
8.12.2	20 mm nominal outer dia .Pipes.	m	25.00
8.12.3	25 mm nominal outer dia .Pipes.	m	25.00
9.0	Wood ,PVC Works and Other Miscellaneous Work		
9.1	Providing and fixing in position single level work station of ht. 750mm. Table top min. 600 mm width made out of 18mm thick Marine Plywood of approved make finished with 1.5mm thick laminate of approved colour and pattern for all exposed surface resting over vertical supports and the Inner Surfaces shall be finished with 0.8mm thick laminate of approved colour and pattern complete as specified in the drawing and directed by Engineer In Charge. (Cable Manager to be provided)The width of the table shall be as per site requiremnets but not less than 600mm) .		
9.1.1	All internal surfaces to be finished with 0.8mm thick balancing laminate of approved shade.Cost to include Borer/Antitermite treatment for wood/plywood.	Sqm	15.00
9.2	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).		
9.2.1	Second class teak wood	Cum	1.00
9.3	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:		
9.3.1	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	20.00
9.4	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISi, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment	Nos	10.00

	with necessary accessories and screws etc. complete.		
9.5	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.		
9.5.1	1.0 mm thick	Sqm	50.00
9.6	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Clerestory windows & other Frames/ Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/ wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm ² , modulus of elasticity 900 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately). Note: For WPC solid door/window frames, minus 5 mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.		
9.6.1	Frame size 50 x 100 mm	metre	100.00
9.7	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge.		

	(Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)		
9.7.1	30 mm thick	Sqm	30.00
10.0	Structural Steel Works		
10.1	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	3,500.00
11.0	Providing and Fixing Ceiling Paneling System (SS) with anti bacterial paint The prefabricated ceiling plates /cassettes should be made up of SS 304 panels with sheet thickness of at least 0.8 mm sandwich (both side 0.8mm sheet) panel of PUF with minimum density 40kg/m3 with matte finish and should be coated with antibacterial paint. It should be from the same manufacturer of wall panel. Total thickness should be 30-40mm. Support elements: Suspension bracket with tension spring/ threaded rod Material: High quality galvanized or powder coated steel. Room lighting, air supply inlet, ceiling service units, return air outlets, etc should be integrated with ceiling system. The individual panels except those at the edges should be removable individually. Third party test certificate for SS Panels from material testing lab. (Govt. authorized) - to be provided at the time of pre dispatch inspection/supply. Colour should be uniform pleasant and matching with ambience and as approved by Engineer In-charge. Anti bacterial paint of reputed make should be coated on the ceiling panels. Test report of anti bacterial paint should be submitted. Bidder should maintain anti-bacterial paint during warranty and CMC period	Sqm	10.00
12.0	Providing and fixing antimicrobial cladding with Silver Ion technology of minimum 2.5 mm thickness for walls, ceilings and other surfaces by preparing the surfaces as per manufacturer specifications, fixing the cladding with silicon 789 of Dow Corning and VHB 3M silicon tape & Arobond or equivalent approved adhesive, the antimicrobial cladding material shall inhibits growth of wide range of microbes including MRSA , E Coil, moulds, fungi etc, should be water resistant , high fire rated , high compact strength, work including PVC welding rod of approved quality & matching colour, approved glue/bonding agent, etc complete, including making cut out for electrical fittings/fixtures, molding of PVC panel, cutting, jointing, grooving etc. complete. Guarantee: 10 years for sticking / pilling off the PVC sheets	Sqm	20.00

	& antimicrobial property. Antimicrobial cladding on ceiling shall be white. The Antimicrobial Silver Ion technology should be present through the thickness of the sheet. Weight of antimicrobial cladding shall be approx. 3.5kg per m² Make: BIOCLAD, PALCLAD or equivalent approved by Engineer-in-charge.		
12.1	Extra for digital printing on Antimicrobial Cladding detailed in Item No- 1	Sqm	10.00
13.0	Providing and fixing Permanently Static Dissipative pressed homogeneous vinyl flooring (EN 649) with self leveling compound, anti static, wear layer thickness is 2mm (EN428), PVC Vinyl flooring having Carbon backing with a total weight 3060 g/m² (EN 430), XR PUR (polyurethane reinforced), Abrasion group P:≤4,0mm, residual indentation approx. 0,02 mm, castor wheel test qualified, dimensional stability ≤0.40%, good resistance of scratch, slip, chemical and fire, doesn't favor in growth of fungi. Electric resistance is as per EN 1081 and ESD approved. Restorable properties. Available in rolls. 100% recyclable. Low VOC emission after 28 days of installation (lower than ≤100µg/m³). Non Directional in Design. Floor should be smooth, non-slip, impervious material conductive enough to dissipate static electricity but not conductive enough to endanger personnel from electric shock. Electrostatic charge dissipation combat PVC seamless flooring of very high quality should be provided. Thickness not less than 2 mm. Continuous roll should be used and joints should be welded by special PVC thermal welding units using PVC welding bars of same colour The sheets should be highly durable with resistance to shock and indentation. It should be scratchproof also. The conductive material should be uniformly impregnated as grains. It should be inert to body fluids, chemicals and disinfectants. Also, it should not be affected by temperature variation within the OT. The floor should efficiently discharge electric charges up to 2 kV Flooring should be done by skilled workers of accredited agencies authorized by the supplier of PVC sheets. The electrical resistance (point to ground) should be within 2.5x10⁴ to 5x10⁶ ohms. The floor should not allow build up of electrical charge beyond 100 volts due to antistatic effect. The corners should not be terminated sharply and concealed cove- former (aluminium) should be used to overlap the wall panel to a height of approx. 25mm and sealed perfectly and uniformly. Self leveling compounds of appropriate thickness for leveling of concrete/tile surface should be used (No Extra Payment for Self -leveling compound to be done separately). The conductive	Sqm	10.00

	copper grid laid underneath the PVC sheet should be supported by liquid epoxy compounds allowed to set as a uniform and level surface. The copper strips to be made visible by grinding and no copper strip should project more than 0.5mm above level surface to avoid damage to the PVC sheet. One earthing lead should be brought out from every 150sq.ft area and attaching it to the main earthing strip/ground. Copper grounding strips (0.05 mm thick, 50 mm width) should be laid flat on the floor in the conductive adhesive and connected to copper strip of grounding. The connection from copper grid should be brought out uniformly at places to form equipotential grid. Flooring should be mechanically shock proof, scratch proof, flame retardant and anti microbial Corners should be uniformly curved Final surface should be non corrosive to biological fluids and detergents. Colour should be uniform pleasant and matching with ambience and as approved by Engineer In-charge Suitable self-leveling should be done before PVC flooring to avoid undulation within the OT.		
14.0	Providing and Fixing Hermetically Sealed single sliding door of 2.4 (H)X 1.5 m(W). The controller should be capable of being operated by elbow switches/foot switches as well as touch less sensor. The track should be of stainless steel/Aluminum and the running surface for the top rollers should be suitably angled to reduce resistance to movement. The door leaf should be hung by means of hard plastic rollers of high quality with double bearing at the top. Rollers should be provided under the stainless steel/Aluminium track to enable smooth and noiseless movement. Opening and closing of the door should be microprocessor controlled electromechanical movement. The door material should be of SMS/ HPL Color should match the interior and care should be taken to make the leaf strong and light weight. One should be able to open and close the door effortlessly incase of failure of automatic mechanism. Door opening handle should be strong and sturdy. Material should be of SS (matte finish). Should be provided with high quality cylindrical/ ESPg lock. Door leaf should have high quality synthetic rubber gasket with long life to ensure hermetic sealing (to maintain air pressure differential). Air tightness 99.99% at a pressure of minimum 75Pa. The finished floor on either side of the door should be perfectly level (maximum permissible difference +1mm). The overall thickness of the finished door should be 30-60mm. The		

	inner part of the door should be filled with CFC free polyurethane foam thickness of 48mm or nearby. (Sealed airtight to prevent further ingress of any microbial organism). The door and controls should comply with IEE regulation. All motors used should be DC brushless/PMDC motors with essential isolation from mains. Door should be with vision window 300 mm x 300 mm with double glazed panels and hermetically sealed. Door movement should have minimum noise. The starting time after receiving the signal should be adjustable between 0.5 to 20 seconds. The door controller should be CE marked/BIS certified/IEC 60601 certified. Test certificate for hermetically sealed door frame (factory test certificate) should be enclosed with the pre dispatch documents.		
14.1	B) HERMETICALLY SEALED DOORS Size 2.4mx1.8 m (As per AERB Norms)	No	1.00
15.0	<u>Surical scrub sink</u> SITC Surical scrub sink made-up of entire body in 2 mm thick SS 304 grade plate & suitable size square frame, unit size 1500mm X 600mm and Height 900 mm floor mounted having following features: 1. automatic sensor option, 2. hot & cold water option 3. Various water dispenser options: Digital sensor, Infrared sensor, Foot, Knee, and Elbow operated arrangements 4. Multiple soap dispenser options: Sensor, Foot, Knee, and Elbow operated arrangements 5. Front removable panels for routine maintenance and liquid refilling 6. Matt finishing for a clean and professional appearance Curved corners into ¼" radius with a sloped curve in the basin to eliminate back splash including all accessories, , heavy duty swan neck tap on sink, P & S trap, flexible connectors, etc all as per directions of EIC . Make: CMP Metal, Modular System, Hybeat or equivalent	Nos	1.00
	OVER HEAD CABINETS		
16.0	Over Head Storage - Size : 450mm(D) & 600mm (H)/Site Requirement(H) Storage Cabinet: Providing and fixing overhead storage cabinet formed of 18 mm Marine plywood of approved make finished with 1.5 mm laminates of approved shed and pattern with adjustable shelves of 18mm thick marine plywood as per drawings. Shutters: Shutter of overhead cabinet to be formed of 18mm ply finished with 1.5 mm laminate of approved colour and pattern, with auto closing spring loaded hinges (hydraulic type) and aluminium profile handles all complete . All external exposed edges to be finished with 2mm thick PVC edge band of approved shade.(front	Sqm	15.00

	area to be measured) Note-Rate shall be inclusive of all necessary approved fittings like auto closing spring loaded hinges, locks, aluminium profile Handles,tower bolts, and all necessary hardware items. (front area to be measured)		
17.0	FULL HEIGHT STORAGE UNIT Providing and fixing storage units of full/ low height as per drawing. They shall consist of 18mm thk. marine ply top, sides, bottom, shelves and shutters & 8mm thk marine ply for back. The bottom of the storages shall be at 75mm from FFL. The shutter with box type hinges of approved make & teak lipping finished with melamine and with approved laminate on all the shutter edges.Division of the shutters shall be made equally according to the length of the storages (as approved by Engineer In-Charge/ architect). All the external surfaces including back shall be finished with 1.0mm thk. Laminate of approved make. 18mm thk. marine Ply shelves at 16" interval (approximately / divided equally) or as specified in drawing shall be provided. All inner surfaces shall be finished with laminate including the shutters. The cabinet has group locks, hinges,stopper, and magnate, handles of approved make & quality and provided S.S. satin finished handle of approved shape,size & make all complete. Note- Rate shall be inclusive of all necessary approved fittings like hinges,magnets, locks, 150mm long SS satin finish handles, and any necessary hardware items. (front area to be measured)	Sqm	10.00
18.0	DOUBLE SKIN PARTITION Providing and fixing full height double skin type Partition Main Frame: -Aluminium sections of 16 Gauge of size 50x50 mm Aluminium section verticals at minimum 600mm Centre to Centre spacing and 50 X 25 mm size Aluminium sections horizontal at 600mm Centre-Centre spacing. Extra frame below slab soffit for conduit to run above.(Make - Jindal, Indal, Hindalco) Skin: 12mm thk marine ply backing on both side screwed with frame as per the drawing. Finish: Finished with 2mm thick laminate of approved make. Laminate shall be fixed on plywood skins with glue having grooves as shown in the drawing or as directed by Engineer In Charge *The rate shall be also inclusive of pattas & bands, grooves at any level, any design in veneer, textures etc including the necessary framing/ openings for Electrical, Telephone & AC outlets. Front area to me measured & opening for the door should be deducted for payment. ** Note -Rate for high partition to include the cost of framework	Sqm	100.00

	above false ceiling as required to fix the same to the ceiling slab for which no extra payment shall be made and the rate quoted shall be inclusive of the same.		
19.0	12MM THICK TOUGHENED GLASS FIXED PARTITIONS WITH FILMING:		
	Providing and fixing in position 12mm clear float toughened Glass partition with patch fittings for the full height glass partitions as per the direction of the engineer-in-charge. The work to include making necessary template for all the glasses and then cutting the clear float glass to correct size, making all the necessary holes, cuts etc., then toughen the same.		
	The cost to include all hardware (PATCH FITTINGS etc) required of Hettich/Hafele/Dorma or approved equivalent make viz., single corner patch, top and bottom corner patch etc. or as per the direction of the engineer-in-charge, along with etching with sand blasting as per design and drawing. The maximum size of each glass shall be 1200mm to 2000mm x 2400mm to 2700mm as per the site requirement. The rate is for a finished item of work etc., complete as directed.		
	**Note- The cost to include the cost of bevelling and smoothening of the exposed edges of the glass	Sqm	15.00
20.0	12MM THICK TOUGHENED GLASS DOORS WITH ETCHING		
	Providing and fixing in position 12mm clear float toughened Glass for naked glass door. The work to include making necessary template for all the glasses and then cutting the clear float glass to correct size, making all the necessary holes, cuts etc., and then toughening the same. The cost to include all hardware required viz., Hettich/Hafele/Dorma make floor spring with its accessories, top pivot, center lock, 450mm glass door handles etc., along with etching with sand blasting as per design and drawing. The maximum size of each glass shall be as per the drawing or the direction of the Engineer-in-charge. The rate is for a finished item of work etc., complete as directed.	Sqm	10.00
	WORKING TABLE		
21.0	Providing and fixing in position single level work station of ht. 750mm . Table top min. 600 mm width made out of 18mm thick Marine Plywood of approved make finished with 1.5mm thick laminate of approved colour and pattern for all exposed surface resting over vertical supports and the Inner Surfaces shall be finished with 0.8mm thick laminate of approved colour and pattern complete as specified in the drawing and directed by Engineer In Charge. (Cable Manager to be provided) (The width of the table shall be as per site requiremnets but not less than 600mm)		

	All internal surfaces to be finished with 0.8mm thick balancing laminate of approved shade. Cost to include Borer/Antitermite treatment for wood/plywood	metre	13.00
	SIDE STORAGE UNIT		
22.0	Providing and fixing side storage unit with three drawers running both sides on soft closing Telescopic (channels) of approved make, made of 18 mm thick commercial ply with 1.5 mm thick laminate on front face and drawer locks to be provided on one side of the counter as per layout. The sides of the drawers shall be made of 18 mm thick Marine plywood, bottom of 12 mm thick plywood & front of 18 mm thick commercial ply. Drawer to be installed with following hardware: 1 no multi purpose lock as specified & aluminium profile handle of approved make. All the visible/exposed edges shall be provided with 2 mm thick PVC edgbanding all complete as shown in the drawings and directed by Engineer In Charge. Note-The rate shall be inclusive of necessary fittings, fixtures, hardware such as channels, hinges, multipurpose lock, aluminium profile handles of approved make, etc as per drawing or instructions of Engineer-In-charge.	Nos	15.00
23.0	MID BACK CHAIR Providing and placing in position Medium back chair. The seat and back shall be made up of 1.2 ±0.1cm. thick hot-pressed plywood measured as per QA method described in OCP-QLTA-P14-18 and upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam shall be designed with contoured lumbar support for extra comfort. The seat shall be extra thick foam on front edge to give comfort to popliteal area. The dimensions of back shall be 47.5 cm(W) x 58.0 cm(H) and of seat shall be 47.0 cm (W) x 48.0 cm (D). The HR polyurethane foam shall be moulded with density= 45±2 kg/m³ and hardness load 16 ± 2 kgf as. per IS:7888 for 25% compression. The one-piece armrests shall be injection moulded from black Co.polymer Polypropylene. Overall Dimensions of Chair shall be Seat Height - 46.5cm, Height - 89.5cm, Width & Depth of Chair as measured from pedestal - Width-61.4 cm and Depth-64.5 cm. Complete all as per the direction of Engineer in charge. The product should be certified with BIFMA and Greenguard.	Each	16.00
24.0	Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with :		
	Decorative veneer facings of approved manufacture	sqm	20.00
25.0	Melamine polishing on wood work (one or more coat).	Sqm	20.00
26.0	Providing and Fixing 5mm thick interior grade HPL Sheet, installation on ceiling & wall cladding on aluminium tube of 50mmx25mm,	sqm	100.00

	1.2mm thick including all necessary hardware. The Fixing will be done using fasteners, Rivets, cleats, angle with screws and silicon if required)		
27.0	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	No	15.00

2. Mechanical Works

Sr.no	Description Of Work	Qty	Unit
	SH-I Pharmacy (Existing Mortuary Building) Mechanical Work		
1	Supplying , Installation, Testing and Commissioning of Air Cooled Hi Wall split type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), surface / concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 3 Mtr (IDU to ODU), copper power cable upto 3.5 Mtr (IDU to ODU) i/c drain pipe R-32/R-410/ R-407 Green Refrigerant, wireless Remote control, suitable for working between 180-260V with low & high voltage cutoff and 50 hz ,1 phase AC supply capable of performing cooling, dehumidification, air circulation of following capacity with Scroll / rotary compressor. The system shall be able to deliver 100% of the rated capacity upto 42 °C. Min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB). Must comply : Electrical cable IS 694 or IS 9968 temperature sensing control IS /International Electrotechnical Commission (IEC) 60730, hermetic compressor IS 10617, heat exchanger IS 11329, capacitor IS 2993 and motor IS 12615. Complete as per CPWD specification and IS : 1391 Part II 2023. The system shall be able to operate up to 50 °C (out door ambient temperature).		
a	2.0 TR with 5 Star BEE Rating	8.00	Each
2	Supplying, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastomeric nitrile rubber tubular sleeves sections of 19 mm thick insulation as given below for Suction and Liquid lines, all accessories as per specifications etc. as required :		
a	12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	100.00	Mtr
b	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	100.00	Mtr
	SH-II (Pharmacy Distributor) Mechanical Work		
1	VRV/VRV		
	Supplying, Installation, Testing & Commissioning of Modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling/heating having 100% hermetically		

	sealed inverter type twin Rotary/Scroll Compressor(s), minimum two compressors (with individual separate PCB) for above 14HP modules, microprocessor based Controller, top discharge type condensing unit(s), with R-410-A Refrigerant or equivalent, vibration Isolators with suitable foundation etc. complete as required. To have better efficiency condensor fan shall be capable to operate at different speed with respect to load. The unit shall deliver the rated capacity and in confirmation as per IS 18728:2024 and CPWD Specifications and work even at 50°C ambient temperature without tripping. The system shall be able to deliver 100% of the rated capacity upto 39 °C. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply and BMS compatible. The unit shall be filled with first charge of the refrigerant and ready for use as required. The condenser should be coated with a hydrophilic film to prevent water accumulation on the surface of the heat exchanger, enhance water dispersion, and reduce the risk of degradation, thereby improving overall performance and durability. The Indian Seasonal Energy Efficiency Ratio (ISEER) of the unit shall be as per Energy Conservation and Sustainable Building Code (ECSBC) 2024 as below and complete as per CPWD specification, connections, inter connections etc. as required. (For capacity <40 kW ISEER 6.4, Capacity > 40 and <70 ISEER 6.5, Capacity > 70 ISEER 6.6 for ECSBC+ Building)		
a	10 HP to 12 HP	30.00	HP
2	Supplying, Installation, Testing and Commissioning of following minimum capacity and external static pressure VRF/VRV ceiling mounted low static ductable type Indoor unit equipped with washable synthetic media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, corded remote control, outer cabinet, vibration Isolators, drain pan, drain pump, other necessary supports etc., suitable for operation on single phase AC supply 230 V ± 10%, 50 Hz complete as required. The Indoor units must shut down upon receiving a signal from the BMS System/Fire Signals. The system shall be capable to adjust air flow as per room requirement automatically. The cooling capacity of indoor unit will be at air inlet conditions of 27 °C DB and 19 °C WB temperature. (Make will be same as of Outdoor) Low static ductable units (minimum 19 to 29		
a	2.0 TR	5.00	Each
3	Expansion Kit, Communication PCB & Thermostat		
	Supply, Installation, Testing & Commissioning of Electronic Type Expansion Kit, Communication PCB with Sensors, Corded Self Diagnostic Type Digital Thermostat, Controller, control box with internal wiring, AHU kit for each DX Type Units and other related accessories etc with connectivity to automation system for A/M status, RUN status & Remote start / stop command (Bacnet/IP). It should be complete as per manufacturing standards & as per directions of Engineer in-charge.		
a	up to 12 HP VRF ODU	5.00	Nos
4	Corded Controller		
	Supply & fixing of Corded type controller for all wall mount, Cassette & air handling type indoor unit (MAKE-LG)	5.00	Nos
5	COPPER REFRIGERANT PIPING		
	Supplying, Installation, testing and commissioning including		

	vaccumiazation and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of 19 mm thick insulation as given below for Suction and Liquid lines, all accessories as per specifications etc. as required :		
a	6.4 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	10.00	Mtr
b	9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	10.00	Mtr
c	12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	50.00	Mtr
d	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	50.00	Mtr
e	19 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	50.00	Mtr
6	Supply, Installation, Testing and Commissioning of Y/T/Multi Joints. Joints shall be of same Original Equipment Manufacturer (OEM) make as of ODU's and IDUs		
a	Indoor Units	5.00	Each
b	Outdoor Multi Joint	5.00	Each
7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer- in-charge. External work. (MAKE- PRINC)		
a	32 mm dia	50.00	mtr
b	25 mm dia	50.00	Mtr
8	S.I.T.C. of PVC armoured 3 1/2 core AL/CU cable along with wall/beam/ceiling/shaft etc with appropriate size of GI trunking x 50 mm, saddles, spacers complete with approved manner. Make- Polycab/RRK/Asian		
a	2 core x 1.5 sq. mm. CU cable	100.00	Rmt
	SH-III (GI Shoot) Mechanical Work		
	VRV/VRV		
1	Supplying, Installation, Testing & Commissioning of Modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling/heating having 100% hermetically sealed inverter type twin Rotary/Scroll Compressor(s), minimum two compressors (with individual separate PCB) for above 14HP modules, microprocessor based Controller, top discharge type condensing unit(s), with R-410-A Refrigerant or equivalent, vibration Isolators with suitable foundation etc. complete as required. To have better efficiency condenser fan shall be capable to operate at different speed with respect to load. The unit shall deliver the rated capacity and in confirmation as per IS 18728:2024 and CPWD Specifications and work even at 50°C ambient temperature without tripping. The system shall be able to deliver 100% of the rated capacity upto 39 °C. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply and BMS compatible. The unit shall be filled with first charge of the refrigerant and ready for use as required. The condenser should be coated with a hydrophilic film to prevent water accumulation on the surface of the heat		

	exchanger, enhance water dispersion, and reduce the risk of degradation, thereby improving overall performance and durability. The Indian Seasonal Energy Efficiency Ratio (ISEER) of the unit shall be as per Energy Conservation and Sustainable Building Code (ECSBC) 2024 as below and complete as per CPWD specification, connections, inter connections etc. as required. (For capacity <40 kW ISEER 7.4, Capacity > 40 and <70 ISEER 7.5, Capacity > 70 ISEER 7.6 for Super ECSBC Building)		
a	10 HP to 12 HP	24.00	HP
2	SITC of double skin construction draw through type DX AHU with thermal break profile as per following specifications, each complete with minimum 6 row deep coil of copper tube and Al fins construction squirrel cage Induction motor air foil centrifugal fan belt drive and vibration isolators. Coil size shall be selected for a maximum face velocity as mentioned and static pressure shall be as indicated. Motor shall be suitable to operate at 415 V 50 Hz 3 phase system. Motor and fan assembly shall be statically and dynamically balanced to a grade G 6.3 as per ISO-1940/AMCA 204-3. All units shall be complete with opposed VCD at outlet, return and Fresh air connections of AHU. The AHU shall be complete with pre filter section with non woven synthetic media MERV8 filters in extruded Al frame on both supply and exhaust side of the AHU. Fine Filter with MERV 13 filters to be provided in extruded Al frames in supply after fan. AHU to be compatible with R410a / eco friendly refrigerant . Air flow velocity 90 to 120 fpm at downstream side. Noise level to be about 50 db +/- inside the clean room. Temperature : 22 Deg C +/- 2 DegC to be maintained. Air changes proposed 20 Air changes per hour minimum Control panel should comprise of operating switches, overload relays, indicators, LED display - pressure, temperature and RH % including sensors. Air velocity at the HEPA to be 90 to 120 fpm as per NABH standard.		
a	2500 CFM	1.00	No
3	Expansion Kit, Communication PCB & Thermostat		
	Supply, Installation, Testing & Commissioning of Electronic Type Expansion Kit, Communication PCB with Sensors, Corded Self Diagnostic Type Digital Thermostat, Controller, control box with internal wiring, AHU kit for each DX Type Units and other related accessories etc with connectivity to automation system for A/M status, RUN status & Remote start / stop command (Bacnet/IP). It should be complete as per manufacturing standards & as per directions of Engineer in-charge.		
a	For AHU up to 10 HP VRF ODU	1.00	Nos
4	Corded Controller		
	Supply & fixing of Corded type controller for all wall mount, Cassette & air handling type indoor unit (MAKE-LG)	1.00	Nos
5	Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required. Supplying, installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular/ round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports, bends, transitions, reducers, end caps, collars etc as required complete in all respect in confirmation with IS : 655 and approved drawings and specifications of following sheet thickness complete as required. (MAKE -TATA, SALE)		

a	Thickness 0.63 mm sheet	200.00	sqm
b	Thickness 0.80 mm sheet	50.00	sqm
8	Supply Air Diffusers		
	Supplying, Fixing, installation, testing and commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core in confirmation to SMACNA/IS and as per specifications complete etc. as required.	5.00	sqm
9	Return Air Diffusers		
	Supplying, Fixing, installation, testing and commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core in confirmation to SMACNA/IS and as per specifications complete etc. as required.	5.00	sqm
10	Duct Accoustic Lining		
	Supplying and fixing of acoustic lining of supply air duct and plenum with 13 mm thick Open Sell Nitrile, with 25 mm X 25 mm GI section of 1.25 mm thick, at 600 mm centre to centre covered with Reinforced Plastic tissue paper and 0.5 mm thick perforated aluminium sheet fixed to inside surface of ducts with cadmium plated nuts.	10.00	Sqm
11	Duct Insulation		
	Supplying and fixing of following thickness duly laminated aluminium foil of mat finish closed cell Nitrile rubber (Class "O") insulation on existing duct after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.		
a	25 mm	25.00	sqm
b	19 mm	200.00	sqm
12	GI volume control duct damper		
	Supplying, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc in confirmation to SMACNA/IS and as per specifications complete etc. as required.	1.00	Sqmtr
13	Fire Dampers & Actuator		
	Supplying, Fixing, testing and commissioning of fire dampers of minimum 90 minutes fire rated in supply air duct/main branch and 156 DELHI ANALYSIS OF RATES (E&M) 2025 return air path as and where required of required sizes i/c control wiring, the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being restored. The spring return action shall be inbuilt mechanism and not externally mounted. The damper shall also be closed in the event of fire signal and, in confirmation to IS and as per specifications complete etc. as required..		
a	Fire Damper	1.00	Sqm
b		1.00	Nos
14	Starter Panel		
	Design and SITC of Electrical Starter Panel Counstructed out of 14 Gauge CRCA sheets with neccessary powder coating, required with all control accessories, control wiring ,safety		

Registration No. F-56886(Mum.)

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GST Number: 27AAAJD0785H1ZA

	controls and necessary indications to be part of this job, MCB,DOL/Star-delta starter, RYB and ON/OFF indications, SPP with all accessories for motor to be provided in the panel. Make of MCB: LT/Schneider, Make of Star/Delta Starter: LT/Schneider, Make of RYB and ON/OFF Indication: LT/Vaishno. Make of SPP: L & T/Minilec/GIC/Legrand/Siemens		
a	Upto 5 HP Motor Rating	1.00	Nos
15	S.I.T.C. of PVC armoured 3 1/2 core AL/CU cable along with wall/beam/ceiling/shaft etc with appropriate size of GI trunking x 50 mm, saddles,spacers complete with approved manner. Make- Polycab/RRK/Asian		
a	4 core x 4 sq. mm. CU cable	50.00	Rmt
d	2 core x 1.5 sq. mm. CU cable	100.00	Rmt
	SH-IV (Blood Collection) Mechanical Work		
1	Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers,supports etc. as per approved drawings and specifications of following sheet thicknesscomplete as required. Supplying, installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular/ round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports, bends, transitions, reducers, end caps, collars etc as required complete in all respect in confirmation with IS : 655 and approved drawings and specifications of following sheet thickness complete as required. (MAKE -TATA, SALE)		
a	Thickness 0.63 mm sheet	200.00	sqm
b	Thickness 0.80 mm sheet	85.00	sqm
2	Supply Air Grills		
a	Supplying, Fixing, installation, testing and commissioning of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers in confirmation to SMACNA/IS and as per specifications complete etc. as required.	5.00	Sqmtr
3	Returns Air Grills		
a	Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete in confirmation to SMACNA/IS and as per specifications complete etc. as required.	5.00	Sqmtr
4	Supply Air Diffusers		
a	Supplying, Fixing, installation, testing and commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core in confirmation to SMACNA/IS and as per specifications complete etc. as required.	5.00	sqm
5	Return Air Diffusers		
a	Supplying, Fixing, installation, testing and commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core in confirmation to SMACNA/IS and as per specifications complete etc. as required.	5.00	sqm
6	Duct Insulation		
a	Supplying and fixing of following thickness duly laminated aluminium foil of mat finish closed cell Nitrile rubber (Class "O") insulation on existing duct after applying suitable adhesive for		

	Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.		
a	19 mm	100.00	sqm
7	Fall Ceiling & ducting dismantling:		
a	Removing, stacking and fixing of Aluminium Fall ceiling in good condition and dismantling the existing GSS Sq meter ducting etc. to Install fabricated GSS ducting as per instruction of Engineer-in-charge.	100.00	sqm
8	Fire Extinguisher		
a	Supplying, Fixing, and commissioning of ABC Type Fire Extinguisher. 6 Kg Capacity, Fire Rating- 2A:21B(Decleared), Working Temp --0 deg C to +50 deg C, Hydraulic Test Pressure - 27 Bar, Burst Pressure -50 bar minimum, Minimum effective discharge time- 8 Sec, Bulk range discharge - 2 Mtr, Operating Principal - As per IS 15683 , Materials- MS , Control Valve Materials - Brass, Syphon Tube Materials - CPVC/ Aluminium fitted with Valve. Class of Fire - A, B, C and E	15.00	Each

3. Electrical Work

Sr. No.	Description	Unit	QTY
1	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.		
1.1	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	80
1.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	80
1.4	2 X 16 sq. mm + 1 X 6 sq. mm earth wire	Metre	60
2	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		
2.1	5/6 A switch	Each	30
2.2	3 pin 5/6 A socket outlet	Each	30
2.3	6 pin 15/16 A socket outlet	Each	30
2.4	15/16 A switch	Each	30
3	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.		
3.1	3 Module (100mmX75mm)	Each	15
3.2	6 Module (200mmX75mm)	Each	5
4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)		
4.1	8 way (4 + 24), Double door	Each	1
5	Supplying and fixing Cable End Box (Loose Wire Box) suitable for following single pole and neutral, sheet steel, MCB distribution board, 240 Volts, on surface/ recess,		

	complete with testing and commissioning etc. as required.		
5.1	For 14 way, Double door SPN MCBDB	Each	1
6	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	Each	5
7	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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.		
7.1	Single pole	Each	30
8	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
8.1	63 A	Each	1
9	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
9.1	40 A	Each	4
10	Supplying, installation, testing & commissioning of smoke detector with builtin LED and mounting base complete with all connections etc. as required.	Each	5
11	39.1 Supplying, installation, Testing and commissioning of following capacity 8 port Layer 2 indoor Network Switch having features and specifications etc. as mentioned here under: Minimum 8 X RJ-45 Gigabit Ethernet Ports and additional 2 X 1G SFP Ports with non-blocking architecture by having Switching capacity of minimum 20Gbps and packet forwarding rate of 14Mpps or higher, 8K MAC table. Internal dual AC Power supply with operating temperature of -5 0C to +50 0C. Jumbo frame: 10KB or higher, IGMP Snooping, IGMP snooping querier and support for IGMP Snooping Fast Leave, Should create 250 or more MLD groups, MLD Snooping, Per VLAN MLD Snooping C MLD Snooping Fast Leave, STP, RSTP, MSTP, Loopback detection, Multicast filtering, VLAN Tagging, QOS: 8 Que per port, WRR, IPv4/IPv6 Interface : minimum 100 IPv4 static route entries and minimum 50 IPv6 static route entries, 700 Access Control entries, SSH CSSL for IPv4 and IPv6, 802.1x, ARP Spoofing, DHCP Snooping and server screening, IP+MAC+Port Binding, Per Port Bandwidth Control, 802.1X Authentication (Supports local/RADIUS database, Port-based Access Control and EAP, OTP, TLS, TTLS, PEAP Support) Cable Diagnostic feature, LLDP, LLDP-MED, SNTP/NTP, RMON, SNMP v1,v2c, v3 and SNMP Traps. Certifications: UL, CE, FCC, RoHS, MTCTE, OEM/Product must be on Trusted Telecom Portal of Department of Telecommunication, Government of India etc. complete as required.		
11.1	8 port PoE Layer 2 Network Switch with PoE Support of 130W or higher with each copper port supporting 802.3at PoE+.	Each	1
11.2	8 port Layer 2 Non-PoE Network Switch	Each	1
12	Supplying, drawing, Testing and commissioning of Cat6A UTP 4pair, 23 AWG solid copper cable in existing conduit/ on surface,U/FTP, LSZH, Non-Plenum,Horizontal (solid) Cable suitable for high speed data networking application supporting upto 10Gbps over a100 meter channel. The 4 Unshielded Twisted Pairs (UTP) cable withcolor coded insulation for easy indentification should have FLAME PROPERTIES		

	i.e. Flammability Test - IEC 60332-1, Smoke Density -IEC 61034, LSZH standards compliance: ANSI/TIA-568 C.2, ISO/IEC11801, IEEE 802.3an, RoHS. Delay Skew should be < 45NS. The outerCable Diameter should be 7.5 + 2 mm. Cable should have been tested and verified by UL/ ETL etc. complete asrequired.		
12.1	1 run of cable	Metre	305
13	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		
13.1	RJ 45 LAN socket outlet	Each	15
14	Supplying, Installation, Testing and commissioning of RJ45 Connector for CAT 6/6A Cables. RJ45 modular plug supports 4 twisted pairs, 8 positions, 8 connectors. Housing: PC, UL94V-2, transparent color,Use for 24- 26 AWG stranded wires etc. complete as required.	Each	20
15	PUBLIC ADDRESS SYSTEM		
15.1	Supplying, installation, testing & commissioning of 1.5/3/6W ceiling speaker complete as required.	Each	3
15.2	Supplying, installation, testing & commissioning of 1.5/3/6W metal box ceiling/wall speakers complete as required.	Each	1
16	Supplying and drawing of cable Fire Retardant PVC insulated copper conductor cable in the existing surface / recessed steel conduit of following pairs, cores and size including connections and interconnections etc. as required.		
16.1	speaker cable Two pair, 2-core, 1.5 sqmm	Metre	50
17	Supplying, Installation, Testing & Commissioning ofType 1 IP Phone having 2 VoIP account, 120 x40 DOT matrix screen with backlight, Full HD duplex speakerphone, IPV6, Gigabit Ethernet, PoE etc. complete as required. Make: Cisco	Each	4
18	Counter Communication System (Push-to-Talk Speaker with Microphone) consisting of an attendant unit with microphone and speaker, a customer unit with speaker and microphone, and a power supply adapter, designed for clear two-way voice transmission across counters.the system shall support push-to-talk operation for the attendant, hands-free communication for the customer, include adjustable volume control, noise reduction features, and durable housing suitable for continuous operation	Each	3
19	LED Flood Light, powder coated pressure die cast aluminium (System lumen efficacy ≥120 and 85%, Input voltage: Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 OC to 50 OC, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2, P. F.≥0.95, IP-66,IK-10, CRI >70, under voltage and over voltage protection,EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement, suitable tilt able fitting, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Colour Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing		

	etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 120 and < 135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).		
19.1	100 watt		5
20	LED Panel light 2x2 ft. (System lumen efficacy ≥ 120 < 135 lm/Watt) Supplying, Installation, Testing & Commissioning of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency $> 85\%$, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5°C to 40°C , internal surge protection of 2.5 KV with Short & Open circuit protection ,THD $< 10\%$, P. F. ≥ 0.95 , IP20, CRI > 80 , UGR (Unified Glare Rating) < 19 , Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) < 3 , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 120 < 135 lm/Watt output .LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast /Extruded aluminium Body(Thickness > 1.20 mm)		
20.1	36 watt	Each	16
21	LED Down lighter (SMD Type) (System lumen efficacy ≥ 105 < 120 lm/Watt) Supplying, Installation, Testing & Commissioning of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency $> 85\%$, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -50°C to 400°C , internal surge protection of 2.5 KV with Short & Open circuit protection ,THD $< 10\%$, P. F. ≥ 0.95 , IP20, CRI > 80 , UGR (Unified Glare Rating) < 19 , Flicker free (flicker should be below 5%), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Colour Matching) < 3 , Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 and < 120 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal		

	management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C) Powder coated die cast /Extruded aluminium Body including trim		
21.1	22 watt	Each	4
22	Online UPS - Input supply: Single Phase, Output Supply: Single Phase. Supplying, installation, Testing & Commissioning of following capacity at full load (Unity Power Factor) ON LINE Uninterrupted Power Supply (UPS) system suitable for Single Phase input, Single Phase output AC Supply. The UPS shall include a Rectifier, inverter, battery bank suitable for 30 minutes back up (Battery VAH capacity shall not be less than 1600 VAH per KVA of UPS rating per Hour backup time) on full load (Battery shall be VRLA, SMF in ABS Container) and Static Bypass switch along with provision for manual bypass, suitable isolation transformer for additional protection against neutral faults etc. The UPS systems shall be Microprocessor based Digital Control, using Insulated Gate Bipolar Transistor (IGBT)'s both for the rectifier & inverter with PWM (Pulse Width Modulation) Technology. The quality of design, manufacturing and inspection process should confirm to the relevant Inter-national standards such as IEC/EN/VDE. The operating efficiency of the UPS systems shall be >95% at 100% non-linear loads. Current total harmonic distortion(ITHD)/ total demand distortion (TDD) on the input grid shall be < 5% at 100 %load. (The required LC filters shall be included in UPS cost), extreme power factor kit to be include to limit the input pf to 0.99 and output power factor shall be unity (i.e. kw rating of the UPS shall be kva rating x 1) however UPS shall be suitable to take load at 0.7 laging to 0.7 leading power factor loads. UPS shall be suitable for incoming supply AC single phase 160-270V 50 Hz and delivering output AC supply true sine wave single phase 220/230/240 Volt, 50 Hz +/- 0.2Hz, Overload capacity of 120% for 10 mins and 150% for 1 minute. Operating temperature 0 to 40 OC, Relative humidity 0-95% non condensing, noise level less than 60db at 1 meter distance, Protection for Under voltage, over voltage, abnormal output voltage, battery over charging, output over current, short circuit, battery deep discharge , 10 KV surge. Display for watt/VA,Amp and Voltage power parameters etc. UPS shall comply with low voltage electromagnetic compatibility (EMC) achieved as per EN 6204, EN6204 Part I and Part 2, it shall be a Voltage and Frequency Independent (VFI) type UPS (as per standard IEC 62040-1, 2 & 3) . The UPS should be with IGBT Based Inverter Technology, Communication RS232/ RS485/ SNMP port open protocol for BMS integration as per approved by Engineering in charge. Required battery racks, DC breaker of suitable rating and interconnecting copper conductor cable of suitable size and connectors and all required accessories are inclusive in the cost. The UPS should have QR code which should contain drawing, test report OEM manual, Geo-Tag of manufacturing location etc		
22.1	3KVA	Each	1
Sr. No.	Description	Unit	QTY
Blood Collection			
1	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.		
1.1	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	50
1.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	50

1.3	2 X 16 sq. mm + 1 X 6 sq. mm earth wire	Metre	20
2	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		
2.1	5/6 A switch	Each	6
2.2	3 pin 5/6 A socket outlet	Each	6
2.3	6 pin 15/16 A socket outlet	Each	6
2.4	15/16 A switch	Each	6
3	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.		
3.1	3 Module (100mmX75mm)	Each	8
3.2	6 Module (200mmX75mm)	Each	3
4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)		
4.1	6 way (4 + 18), Double door	Each	1
5	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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.		
5.1	Single pole	Each	12
6	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
6.1	63 A	Each	1
7	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
7.1	40 A	Each	3
8	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	Each	2
9	Supplying, drawing, Testing and commissioning of Cat6A UTP 4pair, 23 AWG solid copper cable in existing conduit/ on surface, U/FTP, LSZH, Non-Plenum, Horizontal (solid) Cable suitable for high speed data networking application supporting upto 10Gbps over a 100 meter channel. The 4 Unshielded Twisted Pairs (UTP) cable with color coded insulation for easy identification should have FLAME PROPERTIES i.e. Flammability Test - IEC 60332-1, Smoke Density - IEC 61034, LSZH standards compliance: ANSI/TIA-568 C.2, ISO/IEC11801, IEEE 802.3an, RoHS. Delay Skew should be < 45NS. The outer Cable Diameter should be 7.5 + 2 mm. Cable should have been tested and verified by UL/ ETL etc. complete as required.		
9.1	1 run of cable	Metre	50
10	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		
10.1	RJ 45 LAN socket outlet	Each	10

11	Supplying, Installation, Testing and commissioning of RJ45 Connector for CAT 6/6A Cables. RJ45 modular plug supports 4 twisted pairs, 8 positions, 8 connectors. Housing: PC, UL94V-2, transparent color, Use for 24- 26 AWG stranded wires etc. complete as required.	Each	10
12	LED Panel light 2x2 ft. (System lumen efficacy $\geq 120 < 135$ lm/Watt) Supplying, Installation, Testing & Commissioning of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency $> 85\%$, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection, THD $< 10\%$, P. F. ≥ 0.95 , IP20, CRI > 80 , UGR (Unified Glare Rating) < 19 , Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) < 3 , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 120 < 135$ lm/Watt output .LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast /Extruded aluminium Body (Thickness > 1.20 mm)		
12.1	36 watt	Each	6
Interior Work of Pharmacy Counter & Store			
Sr. No.	Description	Unit	QTY
1	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.		
1.1	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	100
1.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	100
1.3	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	50
1.4	2 X 16 sq. mm + 1 X 6 sq. mm earth wire	Metre	50
2	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		
2.1	5/6 A switch	Each	20
2.2	3 pin 5/6 A socket outlet	Each	20
2.3	6 pin 15/16 A socket outlet	Each	15
2.4	15/16 A switch	Each	15
3	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.		
3.1	3 Module (100mmX75mm)	Each	15
3.2	6 Module (200mmX75mm)	Each	15
4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned		

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	copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)		
4.1	8 way (4 + 24), Double door	Each	2
5	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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.		
5.1	Single pole	Each	36
6	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
6.1	63 A	Each	2
7	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
7.1	40 A	Each	6
8	Supplying, installation, testing & commissioning of smoke detector with builtin LED and mounting base complete with all connections etc. as required.	Each	10
9	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	Each	4
10	Supplying, drawing, Testing and commissioning of Cat6A UTP 4pair, 23 AWG solid copper cable in existing conduit/ on surface, U/FTP, LSZH, Non-Plenum, Horizontal (solid) Cable suitable for high speed data networking application supporting upto 10Gbps over a 100 meter channel. The 4 Unshielded Twisted Pairs (UTP) cable with color coded insulation for easy identification should have FLAME PROPERTIES i.e. Flammability Test - IEC 60332-1, Smoke Density - IEC 61034, LSZH standards compliance: ANSI/TIA-568 C.2, ISO/IEC 11801, IEEE 802.3an, RoHS. Delay Skew should be < 45NS. The outer Cable Diameter should be 7.5 + 2 mm. Cable should have been tested and verified by UL/ ETL etc. complete as required.		
10.1	1 run of cable	Metre	610
11	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		
11.1	RJ 45 LAN socket outlet	Each	40
12	Supplying, Installation, Testing and commissioning of RJ45 Connector for CAT 6/6A Cables. RJ45 modular plug supports 4 twisted pairs, 8 positions, 8 connectors. Housing: PC, UL94V-2, transparent color, Use for 24- 26 AWG stranded wires etc. complete as required.	Each	40
13	PUBLIC ADDRESS SYSTEM		
13.1	Supplying, installation, testing & commissioning of 1.5/3/6W ceiling speaker complete as required.	Each	6
13.2	Supplying, installation, testing & commissioning of 1.5/3/6W metal box ceiling/wall speakers complete as required.	Each	3
14	CABLING & WIRING		
14.1	speaker cable Single pair, 2-core, 1.5 sqmm	Metre	50
15	Supplying, Installation, Testing & Commissioning of Type 1 IP Phone having 2 VoIP	Each	5

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	account, 120 x40 DOT matrix screen with backlight, Full HD duplex speakerphone, IPV6, Gigabit Ethernet, PoE etc. complete as required. Make: Cisco		
16	Counter Communication System (Push-to-Talk Speaker with Microphone) consisting of an attendant unit with microphone and speaker, a customer unit with speaker and microphone, and a power supply adapter, designed for clear two-way voice transmission across counters.the system shall support push-to-talk operation for the attendant, hands-free communication for the customer, include adjustable volume control, noise reduction features, and durable housing suitable for continuous operation	Each	3
17	LED Flood Light, powder coated pressure die cast aluminium (System lumen efficacy ≥ 120 and 85%, Input voltage: Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 0C to 50 0C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2, P. F. ≥ 0.95 , IP-66,IK-10, CRI >70, under voltage and over voltage protection,EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement, suitable tilt able fitting, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Colour Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 120 and <135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).		
17.1	250 watt		6
18	LED Panel light 2x2 ft. (System lumen efficacy ≥ 120 <135 lm/Watt) Supplying, Installation, Testing & Commissioning of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F. ≥ 0.95 , IP20, CRI >80, UGR (Unified Glare Rating) <19, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 120 <135 lm/Watt output .LM79 & LM80 Test		



	report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast /Extruded aluminium Body(Thickness > 1.20 mm)		
18.1	36 watt	Each	20
19	LED Down lighter (SMD Type) (System lumen efficacy $\geq 105 < 120$ lm/Watt) Supplying, Installation, Testing & Commissioning of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -50C to 400C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F. ≥ 0.95 , IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free (flicker should be below 5%), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K /4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Colour Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 and <120 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C) Powder coated die cast /Extruded aluminium Body including trim		
19.1	22 watt	Each	10
20	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.		
20.1	25 mm	Mtr	400



Name_____

Place:_____ Signature of Bidder_____

Date:_____ Seal of the Bidder_____