



MAZAGON DOCK SHIPBUILDERS LIMITED

(Formerly known as Mazagon Dock Ltd.)

CIN : U35100MH1934GOI002079

(A Government of India Undertaking)

Shipbuilders to the Nation

Dockyard Road, Mazagon,

Mumbai 400 010.

INDIA

**Modernisation of MDL Guest
House, Dockyard Road,
Mumbai.**

VOLUME-III

**Scope of Work
List of Tender Drawings
Price Bid (Part-II)**

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1. Scope of Work

A. SCOPE OF WORK for Civil work

The work consists of Civil & Interior works including, masonry, plastering, painting, flooring & cladding, Partitions & panelling, doors & windows, waterproofing, modular/customized furniture, False ceiling, General items, Plumbing, HVAC, Electrical work, etc. are within the scope of this tender in accordance with the “drawings” and “Bill of Quantities”. It includes providing, fixing, furnishing all materials, labour-, tools and equipment and management of necessary and incidental to the construction and completion of the work. All work, during its progress and upon completion, shall conform to the lines, elevations and grades as shown on the drawings furnished by the Architects. Should any detail essential for efficient completion of the work been omitted from the drawings and specifications, it shall be the responsibility of the Contractor to inform the Employer/Architects and to furnish and incorporate all such details with Employer’s/Architect’s concurrence, so that upon completion of the proposed work, the same will be acceptable and ready for use.

B. PLUMBING WORKS:-

SANITARY FIXTURES & CP FITTINGS:

The scope of work shall cover the supply, Installation, Testing & Commissioning of the Sanitary Fixtures & Fittings as mentioned in the Bill of Quantity.

DRAINAGE WORK: The scope of work shall cover the supply, Installation, Testing & Commissioning of SWR PVC PIPE TYPE-B(6Kg/cm².) for internal drainage work & vertical down take with all fittings & supports. The scope also include supply & installation work of Nahni trap with gratings & PVC Cowl.

WATER SUPPLY WORK: The scope of work shall cover the supply, Installation, Testing & Commissioning of CPVC Pipes for internal Water supply work & supply & installation work of Gun Metal control valves.

C. ELECTRICAL WORKS

The scope of work shall cover the supply, Installation, Testing & Commissioning of the electrical equipment like Panels, Cables, Switchgear, D. B’s, lighting fixtures, Earthing, cable tray, Inverter, Fire Alarm, Public Addressable, Call bell System, Mobile charging station, Mosquito Repellent, Rodent Repellent, Exhaust Fans.

HVAC PANEL (IP65)

The scope of work for the HVAC Panel (IP65) shall cover the design, manufacture, check test, supply and Installation as described in this specification, as per drawings and schedule of quantities.

Prior to fabrication of the Panels the supplier/contractor shall submit for consultant's approval the shop/vendor drawing consisting of G.A. drawing, sectional elevation, single line diagram, bill of material etc. and design calculations indicating type, size, short circuiting rating of all the electrical components used, bus bar size, internal wiring size, Panels dimension, colour, mounting details etc.. The contractor shall submit manufacturer's catalogues of the electrical components installed in the Panels. Contractor has to submit the 3 sets of as built drawings & drawings shall be provided by the contractor after successfully completion & commissioning of entire electrical system.

LT XLPE CABLES

The scope of work shall cover supply, laying, testing and commissioning of medium voltage XLPE cables.

The specification provided in the technical specs gives the general requirement of cables. However, it is the responsibility of the vendor to take the joint measurement and obtain client's approval before the placement of orders to the main supplier / manufacturer.

Contractor shall submit the as built drawing of the cable laying drawing. Also,

The supplier shall submit following:

Data sheet indicating results of tests.

Test report

DISTRIBUTION BOARDS

The scope of work shall cover the supply, installation, testing and commissioning of lighting and power distribution boards including cable sleeves, anchor fasteners etc. Associated minor civil works required for the erection of the DB's such as opening in wall etc.

CABLE TRAYS

- a) Perforated Cable Trays of ladder type and associated accessories tees, bends, elbows and reducers shall be fabricated from 12 gauge (2.5 mm) mild steel. Prefabricated Cable trays of perforated type and associated accessories tees, elbows and reducers shall be fabricated from 14 gauge (1.6 mm) White CRCA Sheets. Cable trays shall be made of corrosion resistant material or if made of material shall be adequately protected against the corrosion.
- b) Cable trays accessories shall be painted with one coat of Red oxide zinc chromate primer and two side coats of Aluminium alkyd paint.

CABLE TRAY MOUNTING

- c) Cable tray mounting arrangement type to be as marked on layout drawing
- d) Assembly of tray mounting structures shall be supplied fabricated, erected & painted by the electrical contractor.
- e) Tray mounting structures shall be welded to plate inserts or to structural beams as approved by the Project Manager.

- f) Wherever embedded plates & structural beams are not available for welding the tray mounting structure electrical contractor to supply the MS plate & fix them to floor slab by four anchor fasteners of minimum 16 mm dia having minimum holding power of 5000 Kg, at no extra cost.
- g) Maximum loading on a horizontal support arm to be 120 Kg/metre of cable run
- h) Spacing between horizontal support arms of vertical tray runs to be 300 mm.
- i) Cable in vertical race ways to be clamped by saddle type clamps to the horizontal slotted angles. Clamps to be fabricated from 3 mm. thick aluminium strip at site by the electrical contractor to suit cable groups.
- j) The structural steel (standard quality) shall be according to latest revision of IS: 2062 & IS 808 Rev III of 1989. Welding shall be as per latest revision of IS: 816 Rev I of 1969. All structural steel to be painted with one shop coat of red oxide and oil primer followed by a finishing coat of aluminium alkyd paint where any cuts or holes are made on finished steelwork these shall be sealed against oxidation by red oxide followed by the same finishing paint. Steel sheet covers wherever indicated to be similarly painted.

INTERNAL WIRING

The scope of work shall cover, definition of point wiring, system of wiring and supply, installation, connection, testing and commissioning of point wiring for light points, ceiling fan points, exhaust fan points, convenience socket outlet points, power socket outlet points, bell outlet points etc. including fixing of light fixtures, ceiling fan, exhaust fan, wall fan, bell etc.

ELV WIRING

The scope of work shall cover the supply, installation, connection, testing and commissioning of the wiring for Telephone / Computer / Fire detection / Music & wiring installation including supply of telephone cables, Junction boxes, and other related accessories required to complete the wiring and installation.

LIGHT FIXTURE

The scope of work shall cover the supply, installation and testing of various types of LED light fixtures are used in the project.

As per of the proposal the bidder furnish relevant descriptive and illustrative literature on lighting fixtures and accessories and following drawings/ data for the respective lighting fixtures: -

- 1 Dimensional Drawings
- 2 Mounting details cable entry facilities and weights.
- 3 Light distribution diagrams
- 4 Light absorption and utilization factors.
- 5 Lamp output V/S temp Curves.

EARTHING SYSTEM

The scope shall cover the Design, assembling, testing, painting, supply, delivery at site with all related accessories as per the specifications as specified in the technical specification sheet. Compliance with the provisions of this specification shall not relieve the Bidder of the responsibility of furnishing apparatus and accessories of proper design, electrically and mechanically suited to meet the operating requirements under the specified service conditions and be suitable for the purpose of which they are intended.

INVERTER SYSTEM

The scope of work for Inverter system shall cover the design, manufacture, fabrication, assembly, pre – shipment, testing at manufacturer’s works, proper packing for transportation, delivery at site, unloading, storage, erection, interconnection of related equipment’s, calibration, commissioning, testing and putting the Inverter system together with all accessories and auxiliaries as specified hereinafter in a fully operational condition acceptable to the Owner. The systems shall be furnished, erected and commissioned and all other services shall be performed by the vendor as covered under this specification and this work shall be fully in compliance with the requirements stated herein. Also scope of work shall cover the supply, Installation, testing & commissioning of tubular type battery to charge the inverter. The scope of work shall also cover the supply, installation, testing & commissioning of the Tubular type battery to charge the inverter. The scope of work shall also cover the supply, installation, testing & commissioning of the tubular type battery to charge the inverter.

FIRE ALARM SYSTEM

The scope of work shall cover the Supply, installation, testing & commissioning of Intelligent Analog Addressable Fire Alarm System in accordance with the specifications, drawings & schedule of quantities. Microprocessor based addressable and intelligent (analog), fire detection and alarm system complete with addressable, intelligent (analog) heat and smoke sensors, Addressable Manual call point and hooters. The distributed Intelligent Fire Alarm Control Panel (FACP) shall function as fully stand-alone panel. FACP shall have its own microprocessor, software and memory complying with BS5839 Part 4 (1995) and should bear CE mark.

The supplier shall submit following:

- a. GA drawing.
- b. Data sheet indicating results of tests.
- c. Test reports.
- d. O & M manuals.

PUBLIC ADDRESSABLE SYSTEM

The scope of work under this head shall include designing supplying and installing of Public Address System. The work under this system shall consist of furnishing all materials, equipment’s and appliances and labour necessary to install the said system, complete with Speakers, Amplifiers, Mike and Zone Selection Panel.

The PA system is designed to serve the multipurpose of playing music, making general announcement or to transmit the fire tone under fire condition.

Wall-mounted PIR Occupancy Sensor for A.C

The scope of work shall cover the supply, installation, testing and commissioning of Wall-mounted PIR Occupancy Sensor for A.C system with relevant equipment and instruments. The work is to be carried out as per technical specification, BOQ & Drawings.

RODENT REPELLENT SYSTEM

The scope of work shall cover the supply, installation, testing and commissioning of RODENT REPELLENT system with relevant equipment and instruments. The work is to be carried out as per technical specification, BOQ & Drawings.

EXHAUST FANS

The scope of work shall cover the supply, Installation, testing & commissioning of the Exhaust fan of specified sweep and speed, with all accessories and necessary materials, suitable to work on 230 V / 415 V, AC Supply 50 Hz, erected in position. Also it should be installed as per the specification provided in the technical specs.

WIRELESS CALL BELL SYSTEM

The scope of work shall cover the supply, Installation, testing & commissioning of the battery operated call bell system. The installation of the system is carried out as per technical specification & BOQ.

MOBILE CHARGING STATION

The scope of work shall cover the supply, Installation, testing & commissioning of the Mobile Charging Station. The installation of the system is carried out as per technical specification & BOQ.

LIGHTNING ARRESTER

The scope of work shall cover the supply & erecting conventional spike type air termination. The installation of the arrester is carried out as per technical specification & BOQ.

REMOVING & TAKING IT AWAY OF ELECTRICAL ACCESSORIES

- The scope of work shall cover the Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc.
- Dismantling the existing Aluminium/copper mains, sub-mains wiring up to 10 sq.mm along with accessories etc.
- Dismantling of existing fluorescent fittings of any type & size.
- Dismantling the existing ceiling fan/exhaust fan/cabin fan/bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear.
- Dismantling the existing switchgears, DB, and Bus bar of any size complete with/ without board or angle iron frame each.
- Making the site clear of dismantled DB and switch gears by refilling the holes with cement mortar & finishing in an approved manner.
- Dismantling the existing cables of all types & size above 50 sq. mm.
- Refilling the holes for dismantled cables with cement mortar & finishing in an approved manner etc.
- Dismantling the existing underground cable without damaging it with glands, cable end box including refilling the trench up to ground level and making coils.

D. MECHANICAL WORK

For scope of work of Mechanical work please refer Volume IV

The detailed scope of work has been indicated in the Bill of Quantities (BOQ) Price Bid Part-II at Enclosure-1.

2. LIST OF TENDER DRAWINGS

SR.NO	DRAWING NUMBER	DRAWINGS
		17 TH FLOOR
		GENERAL LAYOUTS
1	501	DEMOLITION PLAN
2	502	CONSTRUCTION PLAN
3	503	GENERAL ARRANGEMENT PLAN
4	505	FLOORING & FINISHES PLAN
5	506	FLOORING PLAN
6	507	REFLECTED CEILING PLAN
		SCHEDULES
7	521	FINISHES SCHEDULE – 60
8	522	DOOR SCHEDULE-61
9	523	WINDOW SCHEDULE-62
10	524	SANITARY PLUMBING FIXTURE SCHEDULE-63
11	525	LIGHTS SCHEDULE-64
12	526	BOUGHT OUT ITEMS SCHEDULE-65
13	527	LOOSE FURNITURE SCHEDULE-66
14	528	SCHEDULE OF SIGNAGES-67
		ENLARGED DRAWINGS
15	532	VIP ROOM 01 -SHEET 01
16	532	VIP ROOM 01 -SHEET 02
17	532	VIP ROOM 01 -SHEET 03
18	535	VIP ROOM 05 -SHEET 01/06
19	535	VIP ROOM 05 -SHEET 02/06
20	535	VIP ROOM 05 -SHEET 03/06
21	536	VVIP ROOM 01- TOILET -SHEET 01
22	536	VVIP ROOM 01- TOILET -SHEET 02
23	536	VVIP ROOM 01-SHEET 03
24	536	VVIP ROOM 01-SHEET 04
25	536	VVIP ROOM 01-SHEET 05

26	536	VVIP ROOM 01-SHEET 06
27	536	VVIP ROOM 01-SHEET 07
28	541	BANQUET HALL 03 SHEET 01
29	541	BANQUET HALL 03 SHEET 02
30	541	BANQUET HALL 03 SHEET 03
31	542	POWDER ROOM SHEET 01/02
32	542	POWDER ROOM SHEET 02/02
33	543	LIFT LOBBY SHEET 01
34	543	LIFT LOBBY SHEET 02
35	543	LIFT LOBBY SHEET 03
36	543	LIFT LOBBY SHEET 04
		DETAIL DRAWINGS
37	581	DOOR DETAILS SHEET 01
38	581	DOOR DETAILS SHEET 02
39	581	DOOR DETAILS SHEET 03
40	581	DOOR DETAILS SHEET 04
41	581	DOOR DETAILS SHEET 05
42	581	DOOR DETAILS SHEET 06
43	581	DOOR DETAILS SHEET 07
44	581	DOOR DETAILS SHEET 08
45	584	GENERAL DETAILS SHEET 01-DINING TABLE PLAN
46	584	GENERAL DETAILS SHEET 02-DINING TABLE SECTIONS
47	584	GENERAL DETAILS SHEET 03-DINING TABLE DETAILS
48	584	GENERAL DETAILS SHEET 06-VVIP ROOM BED DETAILS
49	584	GENERAL DETAILS SHEET 07-VVIP ROOM BED DETAILS
		18 TH FLOOR
		GENERAL LAYOUTS
50	601	DEMOLITION PLAN
51	602	CONSTRUCTION PLAN
52	603	GENERAL ARRANGEMENT PLAN
53	605	FLOORING & FINISHES PLAN
54	606	FLOORING PLAN
55	607	REFLECTED CEILING PLAN
		SCHEDULES

56	621	FINISHES SCHEDULE
57	622	DOOR SCHEDULE
58	623	WINDOW SCHEDULE
59	624	SANITARY PLUMBING FIXTURE SCHEDULE
60	625	LIGHTS SCHEDULE
61	626	BOUGHT OUT ITEMS SCHEDULE
62	627	LOOSE FURNITURE SCHEDULE
63	628	SCHEDULE OF SIGNAGES
		ENLARGED DRAWINGS
64	631	VVIP ROOM 03-SHEET 01/06
65	631	VVIP ROOM 03-SHEET 02/06
66	631	VVIP ROOM 03-SHEET 03/06
67	631	VVIP ROOM 03-SHEET 04/06
68	632	BANQUET HALL 01 - SHEET 01
69	632	BANQUET HALL 01 - SHEET 02
70	633	BANQUET HALL 02 - SHEET 01
71	633	BANQUET HALL 02 - SHEET 02
72	633	BANQUET HALL 02 - SHEET 03
73	633	BANQUET HALL 02 - SHEET 04
74	633	BANQUET HALL 02 - SHEET 05
75	644	INTERNAL STAIRCASE SHEET 01/03
76	644	INTERNAL STAIRCASE SHEET 02/03
77	644	INTERNAL STAIRCASE SHEET 03/03
		DETAIL DRAWINGS
78	681	DOOR DETAILS - SHEET 01
79	681	DOOR DETAILS - SHEET 02
80	681	DOOR DETAILS - SHEET 03
81	681	DOOR DETAILS - SHEET 04
82	681	DOOR DETAILS - SHEET 05
83	684	GENERAL DETAILS - SHEET 01-VIP ROOM BED DETAILS
84	684	GENERAL DETAILS - SHEET 02-VIP ROOM BED DETAILS
85	684	GENERAL DETAILS - VVIP ROOM BED DETAILS SHEET 03
		ELECTRICAL WORKS - 17TH FLOOR
86	550	17th Floor Electrical SLD

87	551	17th Floor Electrical layout
88	552	17th Floor Power layout
89	553	17th Floor Module Detail
90	554	17th Floor FA System
91	555	17th Floor PA System
92	556	17th Floor Plumbing Layout
93	560	HVAC Panel layout
		18TH FLOOR
94	650	18th Floor Electrical SLD
95	651	18th Floor Electrical layout
96	652	18th Floor Power layout
97	653	18th Floor Module Detail
98	654	18th Floor FA System
99	655	18th Floor PA System
100	656	18th Floor Plumbing Layout
101	570	Kitchen Equipment Layout
102	700	Additional Deck - Structural Drawing
103	PSS	POWER SUPPLY SLD
104	MDL-TD-557	HVAC Layout 17 th floor
105	MDL-TD-657	HVAC Layout 18 th floor
106	MDL-TD-658	Terrace A.C. Layout

Enclosure-1

PRICE BID (PART-II)
BILL OF QUANTITIES
(To be submitted online)

Sub: Renovation and Upgradation of MDL Guest House, Mumbai.

Ref: MDL Tender No. 180000047

INSTRUCTION TO THE BIDDER:

1. The Goods & Service Tax **IS NOT INCLUDED** in the rates indicated below for this section. Bidder is required to quote Goods & Service Tax **SEPARATELY** in Percentage which will be added to the quoted rates during placement of Order.
2. Bidder to note Clause No. 2 (Defect Liability Period), Clause No 3 (Performance bank Guarantee), Clause No 5 (Safety and Training), Clause No 6 (Terms of Payment), Clause No 7 (Prices and Taxes, Stamp Duty), Clause No 12 (Housekeeping), Clause No 15 (Insurance), Clause No 16 (Water proofing Bank Guarantee) & Clause No 11.10 (Availability of construction material) of Volume II before quoting.
3. MDL reserves the right to increase the quantity of any item in the BOQ to any extent provided the increase in the total Estimated Amount due to this change in the quantity over BOQ quantity multiplied by specified rate for all the items put together do not exceed 25% of the Accepted Contract Value. Bidder to note Clause No 13.1 of Volume II before quoting.
4. Bidder should also note Clause No. 27 (Integrity Pact Bank Guarantee) in Vol I before quoting.
5. Please note that the rate indicated below are inclusive of VAT on Input material, Excise, Octroi wherever applicable before implementation of GST Act.
6. Bidder's quoted amount at Section IV Item no 17 towards Buy Back of ACs shall be recovered from the Contractor's Running Account bills as applicable. Bidder to note **Clause No 6.1.4** of Volume II before quoting. There are 14 Nos. of AC's to be dismantled, List of 04 AC's under buy back scheme and List of 10 AC's to be dismantled and handed over to MDL is at Enclosure- II

Sr. No.	DESCRIPTION	UNIT	QTY	RATE ₹	AMOUNT ₹
I	CIVIL WORK				
A	DISMANTLING WORKS				
1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 meters lead. For thickness of tiles 10 mm to 25 mm	SqM	885	43.69	38665.65
2	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in MDL Premises as directed by Engineer-in-charge.	SqM	885	33.65	29780.25
3	Demolishing brick work manually/ by mechanical means	m3	101	1166.95	117861.95

	including stacking of serviceable material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-charge. Brick work in cement mortar				
4	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 meters lead etc. complete.	SqM	2620	31.02	81272.4
5	Removing carefully existing door or windows with stone frame and shutters and making good etc to the existing surface including stacking within MDL premises etc. complete as directed.	Nos	61	218.58	13333.38
6	Removing existing water proofing treatment from the toilet block including IPS/brickbat coba etc. without damages to structure, leveling and cleaning the surface for providing new specified water proofing treatment & carting away the same outside MDL to Municipal dumping yard complete as directed by Engineer In charge. Note: Items of work to be used.	SqM	50	49.91	2495.5
7	Removal of Toilet Plumbing line including disconnecting and removal of toilet & pantry plumbing, sanitary ware, external pipes, drainage and clearing site. Debris carting away the same outside MDL to Municipal dumping yard etc. complete. (Sanitary fittings handing over to MDL)	Ls	2	25000	50000
8	Removal of existing electrical wires, fixtures and cables from 17 & 18th floor including toilets, Debris carting away the same outside MDL to Municipal dumping yard etc. complete.(Electrical fittings handing over to MDL)	Ls	2	20000	40000
9	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineer - in-	m3	10	2014.1	20141

	charge				
10	Cutting holes up to 15X15CM in walls including making good the same- with common burnt clay FPS bricks	Nos	24	151.77	3642.48
11	Cutting holes up to 7X7CM in walls including making good the same- with common burnt clay FPS bricks	Nos	26	75.89	1973.14
12	Cutting holes up to 30X30CM in walls including making good the same- with common burnt clay FPS bricks	Nos	4	303.53	1214.12
13	Cutting holes up to 20X20CM in walls including making good the same- with common burnt clay FPS bricks	Nos	21	202.35	4249.35
14	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, for all leads including all lifts involved.	m3	50	516.81	25840.5
15	Shifting of building rubbish / malba / similar unserviceable, dismantled or waste materials from 17/18th floor to Ground floor, including loading, transporting, unloading as approved by Engineer-in-charge, for all leads including all lifts involved.	m3	50	604.55	30227.5
B	CONCRETE AND STRUCTURAL STEEL WORKS				
16	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level. Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	m3	10	9066.52	90665.2
17	DESIGN MIX CONCRETE: Providing & laying in position ready mix plain cement concrete, using fly ash and cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated	m3	2	9191.28	18382.56

	<p>mixer, manufactured as per mix design of specified grade of plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying of curing , excluding the cost of curing , admixtures in recommended properties as per IS :9103 to accelerate /retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer in charge. Sand and aggregate derived from natural sources.</p> <p>Note: (1) Excess/less cement used than specified in this item is payable /recoverable separately. (2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS :456. Uniform blending with cement is to be ensured accordance with clauses 5.2 and 5.2.1 of IS:456 -2000 in the items of BMC and RMC." All works above plinth level up to 18th floor level M-15 grade plain cement concrete (cement content considered @240 Kg/cum)</p>				
18	<p>Supplying, fabricating in accordance with IS:800, delivering at site, hoisting and fixing in position, including all temporary staging and supporting work and making all structural steel work in accordance with the design, drawings prepared by the consultants. The rate of steel work shall include cutting, grinding, machining, assembly, welding, jointing, building up new sections, cost of fasteners (nuts, bolts and washers), pre-heating the sections to temperatures up to 250 degree C if thickness of the section is equal to or more than 25 mm. Fabrication will involve connections using plates, channels and angles, gusset plate, foundation bolts, cleats, fasteners etc. complete.</p>	kg	200	125.67	25134

	<p>As per drawing, steel conforming to IS : 226 and IS : 2062 with minimum yield strength of 250 Mpa. Fabricating columns, beams, joists, struts, built up ties and bracings, staircases, platforms, lofts, catwalks, walkways, bridges, ladders, brackets, suspended canopy, grillage foundations etc. and other steel members and items out of the following readily available Sections & Steel plates conforming to Indian Standards. Structural elements may be covered with fireproof coating or anti-corrosion treatment (covered under separate heading) up to which time, the surfaces of all members shall be maintained straight, clean and rust-free and ready to receive fireproofing layer or anti-corrosion layer. Preparing shop drawings, obtaining Structural consultants approval. Including two coats of primer of approved steel primer etc. complete. The rate shall also include 44(c) type of painting for encasing structural sections. Structural elements may be covered with fireproof coating up to which time the members shall be maintained straight OR anti-corrosive protection as per site requirement (covered under separate heading).</p>				
19	Structural steel work in single section, fix with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	1800	80.94	145692
20	Structural steel work, bolted or welded in build up sections, trusses and framework, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	2060	93.61	192836.6
21	Providing and applying anti-corrosive epoxy based paint over exposed structural steel work at	SqM	75	169.63	12722.25

	any height in its finally erected position as per manufacturer's recommendations regarding surface treatment and application.				
C	MASONRY AND PLASTERING WORKS				
22	Providing and carrying out Pest-Control for termites, pests, white ants with final application of the chemical after completion of carpentry work. As per IS Code 6313 Part II or revisions thereof including drilling holes at skirting level to allow the chemical to seep into walls, mixing chemical with the flooring mortar, contractor to give a certificate of Pest Treatment at the end of the job.(Measurement as per carpet area)	SqM	880	105	92400
23	Providing and fixing Siporex concrete block masonry 150 mm thick with 1:4 cement sand mortar including curing etc. complete as directed.	SqM	265	1255.91	332816.15
24	Providing and laying Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above floor V level in all shapes and sizes in: Cement mortar 1:4 (1 cement : 4 coarse sand)	m3	4	8033.27	32133.08
25	Providing and laying Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above floor V level in: Cement mortar 1:4 (1 cement :4 coarse sand)	SqM	65	1023.01	66495.65
26	Providing and applying 12 mm cement plaster of mix: 1:4 (1 cement: 4 fine sand)	SqM	2865	239.49	686138.85
27	Providing and applying 6 mm cement plaster of mix: 1:3 (1 cement : 3 fine sand)	SqM	1068	199.12	212660.16
28	Providing and fixing chicken mesh (Ref IS 3150) of 19 size of aperture at the junction of RCC members and brickwork of approved quality including fixing mesh in position by necessary	SqM	20	408.4	8168

	nailing in concrete or BB masonry and or tying by binding wire				
29	Providing and applying up to 10 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately). For Flat surfaces	SqM	2865	1197.21	3430006.65
D	WATERPROOFING WORKS				
30	Providing & laying water proof bedding to the toilet flooring 25mm thick in C.M.(1:3) using 1 kg of waterproofing compound of approved make and manufacturer per bag of cement including leveling, curing etc. complete as directed.	SqM	285	494.94	141057.9
31	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer shall be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer shall be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry Note: Items of work to be used	SqM	135	413.06	55763.1
32	Providing & laying water proofing treatment to the toilet flooring by giving injections with cement solution with waterproofing compound into the floor slab so as to make it consistent, homogenous and	SqM	45	859.31	38668.95

	impervious against leakage, seepage etc. The sunk portion shall then be covered with necessary brick bat waterproof coba in C.M.(1:5) of 100mm average thickness in required slope mixed with approved waterproofing compound as per manufacturer's specifications finished rough with joint less waterproof cement plaster in C.M.(1:3) 12mm to 15mm thk in all positions extending the water proofing up to 300 mm height, curing, leakage test after impounding the water for 7 days, etc. complete with 5 years guarantee etc.(Measurement in plan area). Note: Items of work to be used				
33	Extra for providing additional thickness of brick bats over average thickness of 100mm in 1:5 cement mortar mixed with waterproofing compound of approved make as per manufacturers specification as directed. Note: Items of work to be used	m3	2	6480.84	12961.68
34	Providing and applying average 15mm thick POLYMER MODIFIED MORTAR (PMM) in proportion of 1 (Polymer) : 5 (Cement): 15 (Quartz sand) by weight with water cement ratio of 0.35 after application of bonding coat of approved make including cleaning of surface with air mixed with water under pressure, and in two layers and including curing after initial setting time etc. as per manufacturers specification etc. complete as directed. (Polymer manufactured by Krishna Conchem, Sunanda, Pidilite, BASF, BECK BOND, Fosroc or equivalent as approved by Engineer In-charge.)	SqM	250	885.37	221342.5
35	Removing existing corrosion in m.s./ tor steel bars by means of suitable light tapping, wire brushing and applying suitable chemicals viz. 'Rusticide', 'Rust converter' and leaving for 24	Litre	50	207.14	10357

	hours, wash the deposits with water on next day etc. complete as directed.				
36	Providing and applying two coats of Rust preventive coating of IPNET of Krishna Conchem or equivalent approved make after cleaning the existing surface from dust/ loose particles by applying air water under pressure etc complete as directed.	Litre	50	487.03	24351.5
37	Providing and laying micro-concrete of Polycrete-A or equivalent from approved manufacturer in line and level to match with existing layer, using bonding coat of Sunepoxy-358 (Resin : Hardner mixed in the ratio 1 : 0.5 by weight) or equivalent with existing surface, curing, excluding form work etc. complete as directed (Rate is inclusive of bonding polymer coat).	Kg	5000	28.81	144050
38	Providing and applying Bonding coat between concrete members like RCC slabs, columns, beams, Chajjas, pardis etc and cement mortar plaster using HACK AID PLAST of M/s. Sunanda Specialty Coatings Pvt. Ltd. or equivalent as per the instructions of manufacturer or Engineer In charge; including cleaning the concrete surface thoroughly to remove dust, dirt, grime, deshuttering oils and rub down to a clean surface at all heights/ levels and locations and as directed by Engineer In charge.	SqM	100	54.43	5443
E	FLOORING & CLADDING WORK				
39	Providing and laying machine cut, mirror polished, Italian Marble stone flooring, staircase tread & risers, skirting with groove laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse	SqM	645	9455.88	6099042.6

	sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing, SS Strip etc. all complete as specified and as directed by the Engineer-in-Charge. a. 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc.(Basic rate of Italian marble of Rs. 6500/- Sq.mt.)				
40	Providing and fixing machine cut, mirror / eggshell polished , Marble stone work for wall lining (vener work) including dado, skirting, risers of steps, doors & windows frame etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge. a. 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc. Note: Items of work to be used. (Basic rate of Italian marble of Rs. 6500/- Sq.mt.)	SqM	385	11728.5	4515472.5
41	Providing and fixing machine cut, mirror / eggshell polished , Marble stone work for wall lining (vener work) including dado, skirting, risers of steps, doors & windows frame etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white	SqM	220	11728.5	2580270

	<p>cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing, 6X6mm groove etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge. a. 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc. Note: Items of work to be used (Basic rate of Italian marble of Rs. 6500/- Sq.mt.)</p>				
42	<p>Providing and fixing 18mm thick machine cut, machine polished Italian marble stone for flooring of approved lot (Approved by Architect) with Inlay pattern as shown in drawing, set in 25mm thick cement mortar 1:4 bedding, white cement paste floating , joints finished neatly with colored cement, curing, machine polishing, cleaning etc. complete, as directed. Stone should have protection coating on back to avoid water marks/absorption on top after laying. Olephobic & polyphobic coats are required including tin oxide machine polishing on site to obtain mirror finish. Wastage of material etc. & providing PVC sheet protective cover for floor. (Basic rate of Italian marble of Rs. 6500/- Sq.mt.)</p>	SqM	20	13868.5	277370
43	<p>Providing and Fixing Granite of 18mm thick gang saw cut mirror polished premoulded and prepolished machine cut for kitchen platforms, vanity counters, window sills, facias, staircase tread & risers and similar location of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigments, epoxy touch ups, including rubbing, curing, moulding and polished to edge to give high gloss finish etc. complete at all levels as directed by Engineer-In-Charge</p>	SqM	55	4310.95	237102.25

	-Granite of any colour and shade --Area of slab over 0.5 Sqm. Note: Items of work to be used (Basic rate of Granite of Rs. 1800/- Sq.mt.)				
44	Providing & laying polished vitrified floor in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and confirming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete -Size of Tiles 60 cm X 60 cm Note: Items of work to be used (Basic rate of Vitrified tile of Rs. 1200/- Sq.mt.)	SqM	335	2003.21	671075.35
45	Providing & fixing approved 18mm thick IPE deck wooden flooring, skirting with cladding & transition profile of approved make with 25 X 25 X 1.5mm thick aluminium framework @ 1200mm C/C etc. complete as per manufacture's specifications (Basic cost of IPE deck wooden flooring Rs. 3500/- per Sq.mt)	SqM	45	5843.27	262947.15
46	Providing and laying Kota stone slab flooring 25mm thick over average 20mm thick base laid over of C.M 1:4 (1 cement : 4 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing etc. complete as directed. Note: Items of work to be used	SqM	10	1603.61	16036.1
47	Providing and fixing Composite marble of white shade for flooring & Cladding having thickness up to 18mm in required size, shade ,size as per drawing, laid over 20mm thick cement mortar 1:4 & 15mm thick backing coat plaster of CM 1:4,cleaning all as per specifications and as directed. (Basic cost of composite marble/ Agglomerate Rs. 2500/- per sq.mt.)	SqM	10	4093.82	40938.2

48	Providing and erecting 600mm deep Pantry counter in shape and design as directed. With approved 20mm thk granite top of approved shade, including 18MM cement mortar and LOCAL marble base, with LOCAL marble verticals and shelves (up to 20 mm tk.) as indicated, making cut-outs for sink, plumbing fixtures, gas cylinder pipes, etc, cost to include for all granite vertical patties, facias, splash - back patties, granite skirting etc. Polishing including edge polishing, washing, cleaning, and finishing the wall surface below the counter with 200mm x 200mm ceramic white colour tile including necessary cement mortar backing complete details as directed. Running length of counters to be measured along their centre lines and paid for. (Basic cost of granite Rs. 2000/- Sq.mt.)	rmt	36	12333.33	443999.88
49	Providing and erecting 420mm deep Pantry counter in shape and design as directed. With approved 20mm thk granite top of approved shade, including 18MM cement mortar and LOCAL marble base, with LOCAL marble verticals and shelves (up to 18 mm tk.) as indicated, making cut-outs for sink, plumbing fixtures, gas cylinder pipes, etc, cost to include for all granite vertical patties, facias, splash - back patties, granite skirting etc. Polishing including edge polishing, washing, cleaning, and finishing the wall surface below the counter with 200mm x 200mm ceramic white colour tile including necessary cement mortar backing complete details as directed. Running length of counters to be measured along their centre lines and paid for. (Basic cost of granite Rs. 2000/- Sq.mt.)	rmt	5	8633.33	43166.65
50	Providing and Constructing Counters for wash basin of up to 600mm wide & variable length as per Architectural drawing;	rmt	15	12500	187500

	<p>consisting</p> <p>a) Top & Side - 18+18 mm thick Italian marble sandwiched with 25mm thick kadappa single piece fixed with adhesive.</p> <p>b) Wall side - 18mm thick Italian marble with 25mm thick Kadappa with back coat plaster of 20 mm thick cement sand mortar (1:4)</p> <p>c) Bottom - 18mm thick Italian marble laid on PCC</p> <p>d) Fascia - 61mm wide & 18mm thick Italian marble fascia.</p> <p>e) Fascia - 18mm thick marine plywood finished with veneer with imported PU coating one side & laminate finished inner side up to 150mm wide of fascia in single piece fixed in position including cleats as per design.</p> <p>f) 18mm thick 600mm wide Italian marble shelves with polishing as per drawing. (Basic rate of Italian marble of Rs. 6500/- Sq.mt.)</p>				
F	CARPENTRY WORK				
51	<p>Plywood panelling: Main Frame: Out of 50x50x1.5mm Aluminium Sections at approx. 450mm centre to centre vertically and horizontally. All verticals secured to ceiling with anchor fasteners. glass wool infill of 24kg/m³ density to be provided. Well notched frames including making cutout for electrical conduits, support for access control lock complete as per detailed drawings. (Measurement up to slab level)</p>	SqM	100	1754.8	175480
52	<p>Plywood panelling: Same as above item 85mm X 50mm X 1.5mm @ 690mm C/C</p>	SqM	15	2005.18	30077.7
53	<p>Plywood panelling: Same as above item 35mm X 35mm X 1.5mm @ 450mm C/C</p>	SqM	25	1383.51	34587.75
54	<p>Plywood panelling: Skin : 19mm Marine Plywood on one side screwed to frame work with joints as shown or directed including Trims on all edges. (Basic Rate of plywood 1345/-</p>	SqM	70	2026.58	141860.6

	Sq.mt)				
55	Plywood panelling: Skin : 12mm Marine Plywood on one side screwed to frame work with joints as shown or directed including Trims on all edges. (Basic Rate of plywood 1090/- Sq.mt)	SqM	45	1658.5	74632.5
56	Plywood panelling: Skin : 9mm Marine Plywood on one side screwed to frame work with joints as shown or directed including Trims on all edges. (Basic Rate of plywood 850/- Sq.mt)	SqM	25	1339.64	33491
57	Plywood panelling: Skin : 6mm Marine Plywood on one side screwed to frame work with joints as shown or directed including Trims on all edges. (Basic Rate of plywood 700/- Sq.mt)	SqM	25	1139.55	28488.75
58	Plywood panelling: Finishing-VENEER : 4mm thk approved veneer finished with imported PU coating on one side with matching superior grade fixed to the plywood having joints/grooves as shown or directed. With melamine polish. (Basic rate of veneer Rs.2000/- SQ.M.) (Basic rate of PU Coating of Rs 100/- SFT)	SqM	160	4301.4	688224
59	Plywood panelling: Finishing- LAMINATE : Not less than 1.5mm thk laminate on one side fixed to plywood skin with glue having joints and grooves as shown or directed. (Rs. 647/- Sq.mt)	SqM	20	1068.93	21378.6
60	Glazed Partitions: Providing and fixing fully glazed partition for External/Internal, using 12mm thick toughened glass, fixed with aluminium 'U' channel in the floor and on the frame above ceiling complete in all respects. Framework to be supported on true ceiling. etc. complete.	SqM	32	4355.97	139391.04
61	Providing and fixing Fully Glazed Door Shutters with 12mm thick toughened glass fixed on patch fittings of approved make and as per design and details given by the architect/ including	SqM	11	10352.25	113874.75

	accessories, pvc edging, DORMA BTS 75V floor spring, SS mat finish pull handle, corner patch lock with cylinder etc. complete as directed.(Type DR01L, DR01.1L, DR10)				
62	Providing and fixing Fully Glazed Door Shutters with 10mm thick toughened glass fixed on patch fittings of approved make and as per design and details given by the architect/ including accessories, pvc edging, DORMA BTS 75V floor spring, SS mat finish pull handle of size 25mm dia. & 200mm long, SS Polished towel bar of size 25mm dia. & 450mm long, corner patch lock with cylinder etc. complete as directed.(Type DR11L,DR11.1L, DR11R)	SqM	11	10377.93	114157.23
63	Providing and Fixing in position teak wood of approved quality and size Door frames, Rafters, Panelling or any other decorative work including all hardware and finished in veneer with PU coating/fire retardant paint complete as directed. (Basic rate of PU Coating of Rs 100/- SFT)	m3	6	120000	720000
64	Providing & fixing in position 40 mm thk solid core approved brand flush door, finished with 4mm thick approved veneer with melamine polish from both side,40X12mm T W beading all around the shutter, Hardware:- DT 710 J shaped lever handle - Hafele 917.64.002 with DT 700 SS Mortise Lock Matt DIN LH/RH, comfort function inwards opening with 2 fixing screws For end width 20mm, 55mm backset - Hafele 917.81.710 and Fl.str.pl.stst.matt DL/DR 170/24mm - Hafele 911.39.747 including single cylinder with emergency keys - Hafele 916.22.701, all mounting material - Hafele 917.80.451, battery energizer mignon 1,5V - Hafele 910.54.980 & Hafele blank white user keycards	SqM	16	14803.45	236855.2

	Mifare Classic w/o LOGO - Hafele 917.64.070, Dorma BB 4330 Butt Hinge 4 X 3 X 3 mm. - 4 Nos., DOOR Closure-Dorma ITS 96 EN 2-4, etc. complete as per drawing as directed. (Type DR02.1L, DR02.1R, DR02.2L, DR02.2R, DR2.3R,DR03L,DR03R,DR3.1L) (Basic rate of veneer of Rs. 2000/-Sq.mt.)				
65	Providing & fixing in position 40 mm thk solid core approved brand flush door, finished with 1.5mm thick approved laminate from both side,40X12mm T W beading all around the shutter, Hardware:- SS Matt finish mortice handle with EPC, key from outside & thumb turn from inside- Hafele Startec 903.92.556 (for door thickness up to 50mm) with mortise cylinder lockcase, 55mm backset, 72mm centre distance, 24mm square forend, SS matt - Hafele 911.02.164 and Euro profile toilet cylinder (no key) thumb turn inside / emergency release outside, 35.5+35.5 = 71mm, matt nickel - Hafele 916.96.416, Dorma BB 4330 Butt Hinge 4 X 3 X 3 mm. - 4 Nos.,Door closer - Dorma ITS 96 EN 2-4 etc. complete as per drawing as directed. (Type DR03.2L, DR03.3L)(Basic rate of Laminate of Rs. 647/- Sq.mt.)	SqM	4	11872.72	47490.88
66	Providing & fixing in position 40 mm thk solid core approved brand flush door, finished with 1.5mm thick approved laminate from both side,40X12mm T W beading all around the shutter, Hardware:- SS Matt finish mortice handle with EPC, key from outside & thumb turn from inside- Hafele Startec 903.92.556 (for door thickness up to 50mm) with mortise cylinder lockcase, 55mm backset, 72mm centre distance, 24mm square forend, SS matt - Hafele 911.02.164 and Euro profile toilet cylinder (no key) thumb turn inside / emergency	SqM	26	10572.67	274889.42

	release outside, 35.5+35.5 = 71mm, matt nickel - Hafele 916.96.416, Dorma BB 4330 Butt Hinge 4 X 3 X 3 mm. - 4 Nos., etc. complete as per drawing as directed. (Type DR07L, DR07R, DR08L, DR08R, DR8.1L, DR9.1L, DR9.2L, DR12.2R, DR12.3L, DR13L, DR14 L, DR14R) (Basic rate of Laminate of Rs. 500/- Sq.mt.)				
67	Providing & fixing in position 40 mm thk solid core approved brand flush door, finished with 1.5mm thick approved laminate from inside & 4mm thick veneer from outside, 40X12mm T W beading all around the shutter, Hardware:- SS Matt finish mortice handle with EPC, key from outside & thumb turn from inside- Hafele Startec 903.92.556 (for door thickness up to 50mm) with mortise cylinder lockcase, 55mm backset, 72mm centre distance, 24mm square forend, SS matt - Hafele 911.02.164 and Euro profile toilet cylinder (no key) thumb turn inside / emergency release outside, 35.5+35.5 = 71mm, matt nickel - Hafele 916.96.416, Dorma BB 4330 Butt Hinge 4 X 3 X 3 mm. - 4 Nos., Door closer- Dorma ITS 96EN 2-4 etc. complete as per drawing as directed. (Type DR06L, DR06R, DR06.1L) (Basic rate of Laminate of Rs. 647/- Sq.mt.)	SqM	7	11872.72	83109.04
68	Providing & fixing in position 40 mm thk solid core approved brand flush door, finished with 1.5mm thick approved laminate from inside & 4mm thick veneer from outside, 40X12mm T W beading all around the shutter, Hardware:- SS Matt finish mortice handle with EPC, key from outside & thumb turn from inside- Hafele Startec 903.92.556 (for door thickness up to 50mm) with mortise cylinder lock case, 55mm backset, 72mm centre distance, 24mm square forend,	SqM	6	10572.67	63436.02

	SS matt -Hafele 911.02.164 and Euro profile toilet cylinder (no key) thumb turn inside / emergency release outside, 35.5+35.5 = 71mm, matt nickel - Hafele 916.96.416, Dorma BB 4330 Butt Hinge 4 X 3 X 3 mm. - 4 Nos., etc. complete as per drawing as directed. (Type DR09L, DR12R, DR12.1R)(Basic rate of Laminate of Rs. 647/- Sq.mt.)				
69	Providing & fixing in position 75 mm thk 2hour fire rating with promina finished with 4mm thick veneer from both side,75X12mm T W beading all around the shutter, Hardware:- Panic exit device PED 200 - Horizontal lock, powder coated, Hafele 901.02.449 with lever handle for outside, powder coated Hafele 911.52.113. 5kunckle 2 ball bearing butt hinge BB 3090F Metal screw 4X3X3SS 304-4Nos. Door closer- Dorma ITS 96EN 2-4, etc. complete as per drawing as directed. (Type DR04, DR4.1)(Basic rate of Veneer of Rs. 2000/- Sq.mt.)	SqM	8	18750	150000
70	Providing and fixing full height Sliding anodized glazed aluminium doors as per details, Size and specifications mentioned in the drawing, using 160X 25mm anodized aluminium box section finished with PVDF of approved shade & type for sub frames, frames, shutter frames mullions, couplers, tubular sections, beadings etc. from approved manufacturers including shutter with clear glass of 6 m thick of approved make, & commercially available fixtures, holdfasts, fixing by drilling in concrete (if required) concealed handles, approved locking arrangement for sliding, locks, approved imported heavy ball bearing rollers and guides along with anti-rattling pieces/guides at top and bottom. Neoprene gaskets	SqM	10	10482.79	104827.9

	for fixing glass and anodizing all aluminium sections to a thickness of anodic film not less than 20 microns (or powder coated) and sealing all the joints with approved make silicon sealant etc. complete as directed. (Type DR05 & DR5.1)				
71	<p>Providing and fixing Sliding folding door- anodised of approved shade and colour finished Aluminium work with extruded built up standard sections of Jindal / Aluminax /Hindalco conforming IS: 733 & IS: 1285 fixing with dash fasteners of required size, including filling up the gaps at junctions i.e. top, bottom & sides with required EPDM rubber / neoprene / polysulphide sealant etc. Aluminium section shall be smooth, rust free, straight and jointed mechanically wherever required, including cleat angle, aluminium snap beading for glazing / panelling, stainless steel screws, IMEX Hinges, Wolf-pile all complete as per drawings & manufacturers specification and as directed by Engineer-in-charge.</p> <p>Single glass unit with 19mm thick sound proof glass, bearing, lock, EPDM, wool - pile. Contractor shall submit shop drawings for the same for approval of Architect etc. complete as directed. (Type - W09)</p>	SqM	19	27500	522500
72	Supply & fixing in position at all floors anodised of approved shade and colour finished aluminium work for windows, ventilators, louvers with extruded built up standard sections of Jindal / Aluminax /Hindalco conforming IS: 733 & IS: 1285 fixing with dash fasteners of required size, including filling up the gaps at junctions i.e. top, bottom & sides with required EPDM rubber / neoprene / polysulphide sealant etc.	SqM	32	5496	175872

	<p>Aluminium section shall be smooth, rust free, straight and jointed mechanically wherever required, including cleat angle, Aluminium snap beading for glazing / panelling, stainless steel screws, IMEX Hinges, Wolf-pile all complete as per drawings & manufacturers specification and as directed by Engineer-in-charge.</p> <p>Providing and fixing glass panels in windows at all location and heights of following thickness etc. all complete as per drawings & specification and as directed by EIC (Mode of measurement :- Dimension in length and width of exposed finished surface of glass panel shall be measured sq.m nearest to 0.01). Single glass unit with 5mm thick plain glass, bearing, lock, EPDM, woolf - pile. Contractor shall submit shop drawings for the same for approval of Architect etc. complete as directed. (Type - W01,W4.1,W4.2,W5.1,W5.2,W06 ,W10)</p>				
73	<p>Supply & fixing in position at all floors anodized of approved shade and colour finished Aluminium work for windows, ventilators, louvers with extruded built up standard sections of Jindal / Aluminax /Hindalco conforming IS: 733 & IS: 1285 fixing with dash fastners of required size, including filling up the gaps at junctions i.e. top, bottom & sides with required EPDM rubber / neoprene / polysulphide sealant etc. Aluminium section shall be smooth, rust free, straight and jointed mechanically wherever required, including cleat angle, Aluminium snap beading for glazing / panelling, stainless steel screws, IMEX Hinges, Wolf-pile all complete as per drawings & manufacturers specification and as directed by Engineer-in-charge.</p>	SqM	112	10992	1231104

	<p>Providing and fixing glass panels in windows at all location and heights of following thickness etc. all complete as per drawings & specification and as directed by EIC (Mode of measurement :- Dimension in length and width of exposed finished surface of glass panel shall be measured sq.m nearest to 0.01). 26 mm thick (nominal) sound proof double glass unit with two glasses sealed with primary sealant by using Butyl sealant and secondary sealant by using silicon sealant comprising of the two glass panes of saint Gobain or equivalent make of 6mm thick SKN 165 + 8mm clear HS and separated by a gap of 12 mm by a aluminium spacer are filled with Desicant which absorb moisture present in the air within the unit. The air between the glass is dry which enables lesser heat transfer into the building, bearing, lock, EPDM, woolf-pile. Contractor shall submit shop drawings for the same for approval of Architect etc.complete as directed.(Type - W02,W3.1,W3.2,W06,W8.1,W8.2)</p>				
74	<p>Providing and fixing 300mm wide & 250mm deep plywood band made up of 50X50X1.5mm thick aluminium box section 2Nos @ top & 2Nos @ bottom with 19mm thick marine plywood at bottom & sides, finished with 4mm thick veneer with melamine polish. 100mm wide & 250mm deep plywood band made up of 50X50X1.5mm thick aluminium box section @ top & bottom with 19mm thick marine plywood at bottom & sides, finished with 4mm thick veneer with melamine polish. 100mm wide between two bands with 19mm thick marine plywood finished with 12mm thick gypsum board with approved paint finish. Including all hardware etc.</p>	rmt	25	15818.88	395472

	complete as per drawing as directed. (Basic rate of Veneer of Rs. 2000/- Sq.mt.)				
75	Providing and fixing veneer panelling with 75X40X1.5mm aluminium box section @ both end & 50X50mm teakwood framework @ 600mm C/C vertically & horizontally, 9mm thick plywood fixed on teakwood framework finished with 4mm thick veneer with melamine polish including all hardware etc. complete as per drawing as directed. (Basic rate of Veneer of Rs. 2000/- Sq.mt.)	SqM	5	6203.86	31019.3
76	Providing and fixing veneer panelling with 75X40X1.5mm aluminium box section @ both end & 50X50mm teakwood framework @ 600mm C/C vertically & horizontally, 9+9mm thick plywood fixed on teakwood framework finished with 4mm thick veneer with melamine polish including all hardware etc. complete as per drawing as directed. (Basic rate of Veneer of Rs. 2000/- Sq.mt.)	SqM	10	7334.85	73348.5
77	Providing and fixing approved veneer/mirror panelling with 25X40X1.5mm aluminium box section @ 600X600mm C/C @ horizontal & vertically, 8mm thick marine plywood fixed on aluminium framework, mirror panelling consisting 6mm thick marine plywood with 6mm thick mirror of approved make, & veneer panelling consisting of 9mm thick marine plywood with 4mm thick veneer, & aluminium "L"/"T" angle fixed between the veneer & mirror panelling. including two coats of melamine polish to the veneer all hardware etc. complete as per drawing or as directed. (Basic rate of Veneer of Rs. 2000/- Sq.mt.)	SqM	36	10732.1	386355.6
78	Providing and fixing Italian marble inlay with 60X40X1.5mm aluminium box section @ both end 19mm thick plywood fixed on wall finished with 18mm thick approved	SqM	12	19727.59	236731.08

	Italian marble inlay including all hardware etc. complete as per drawing as directed. (Basic rate of Italian marble of Rs. 6500/- Sq.mt.)				
79	Providing and fixing Italian marble panelling with 50X25X1.5mm aluminium box section as per drawing, 18mm thick Italian marble fixed with araldite on 19mm thick marine plywood including all hardware etc. complete as per drawing as directed. (Basic rate of Italian marble of Rs. 6500/- Sq.mt.)	SqM	24	16787.23	402893.52
80	Providing and fixing 40mm thick foam padding with 12mm thick marine plywood with 40mm thick foam padding with approved fabric finish including all hardware etc. complete as per drawing as directed.	SqM	12	4125	49500
81	Providing and fixing metal cladding made up of 2Nos of 25X50X1.5mm aluminium box section @ 450mm C/C, 19mm thick marine plywood with 2mm thick metal cladding with approved finish including all hardware etc. complete as per drawing as directed.	SqM	27	7295.26	196972.02
82	Providing and fixing Laminate glass railing with 3Nos of 25X50X1.5mm aluminium box section & 1no 38X50mm aluminium box section, 12mm thick approved wood fixed on aluminium section on all sides, 6+6mm thick & 1085mm high laminated glass with 1.5mm thick PVB film including all hardware etc. complete as per drawing as directed. (Basic rate of Laminated glass of Rs. 3000/- Sq.mt.)	rmt	6	10688.23	64129.38
83	Providing and fixing wall mounted wooden hand rail with 50mm dia. & 1.5mm thick SS pipe & approved wood fixed on ss pipe including all hardware etc. complete as per drawing as directed.	rmt	21	3568.45	74937.45
84	Providing and fixing mirror panelling with 25X40X1.5mm aluminium box section @	SqM	7	3956.86	27698.02

	600X600mm C/C @ horizontal & vertically, 9mm thick marine plywood fixed on aluminium framework, & 6mm thick mirror of approved make, including all hardware etc. complete as per drawing or as directed.				
85	Providing and fixing Teakwood frames, 25mm x 40mm with Shutters to pantry counter counters made out of 19mm Marine Plywood finished with approved 1.5mm thick for external surface & 1mm thick laminate for internal surface per drawings and directed etc. complete. (Basic rate of laminate of Rs. 647/- Sq.mt.)	SqM	11.12	4666.67	51912.38708
86	Providing and fixing column cladding/ wall panelling/ with 12mm marine plywood finished with 4mm thick approved veneer with melamine polish on 50X50X1.5mm/50mmx25mmX1.5mm thick Aluminium sections frame work, Teakwood beading at corners with melamine polish, as per drawing etc complete. (Basic Rate of Veneer of Rs. 2000/-Sq.mt)	SqM	20	6733.51	134670.2
87	Providing and installing over head storage unit of 400mm deep, height as per drawings including partition and shelves made out of 19mm marine plywood, shutter of width average 400mm and up to 600mm 19mm thick and 6mm marine ply back and pelmet, finished with 1.5mm thick approved laminate on all outer faces or post formed laminated storage shutters and 0.8mm thk laminate of approved shade & make to internal spaces, all fixtures, fittings, with hinges, handles, locks, etc. as per drawing/ directed etc complete.	SqM	10	16333.33	163333.3
88	Providing and fixing 6mm thick plain clear mirror of approved quality pasted on 19mm thk marine ply with 3M adhesive tape / silicon to insure proper adhesion including back panelling made up of 50mm x	SqM	29	6333.33	183666.57

	50mm AL frame (heavy gauge) & pelmet of 75mm x 75mm in 19mm thick plywood & BTC wood on all four sides, etching, beveling and frosting design as per drawing, Edges of the mirror to be computerized machine polished.				
89	Providing and fixing 150mm deep X 300mm wide pelmet including 485mm deep fascia using 19mm thick marine ply & 12mm thick Gypsum board backing with teakwood beading around the edge & approved paint with aluminium framework of size 25 X 40mm etc. complete as per design or as directed. (Basic rate of Gypsum 207/- Sq.mt.)	rmt	30	3667.96	110038.8
90	Providing and fixing 150mm deep X 150mm wide pelmet including 485mm deep fascia using 19mm thick marine ply & 12mm thick Gypsum board backing with teakwood beading around the edge & approved paint with aluminium framework of size 25 X 40mm etc. complete as per design or as directed. (Basic rate of Gypsum 207/- Sq.mt.)	rmt	40	3395.11	135804.4
91	Providing and Fixing trap Doors for accessing the services and utilities in marine plywood 19mm thick, with necessary sized salwood framework, suspended from true ceiling bolted by anchor fasteners. Doors to be finished with laminate internally & paint on external sides, edged with PVC transparent seal to prevent smells being sucked into the trap door space. Small sized trap doors to be locked with Ellen Key locks with safety chain stays. Larger sized Doors to be divided into removable panels with notched removable framework as directed complete.	SqM	10	5143.49	51434.9
92	Providing and installing full ht. wardrobe unit of 2040mm high, 1500 to 900mm wide X 600mm deep with 19mm marine	SqM	50	24184.14	1209207

	plywood top and 25mm thick shutters in approved wood with louvers/battens finished with melamine polish, shelves with veneer with imported PU coating finish on external surface & 1mm thick laminate for internal faces of approved shade with veneer beading to all corners and edges, 8mm thick marine plywood for back finished with 1mm thick laminate on both side, all hardware, fittings, hinges, handles, ball catches and locks including hanger rail of hafele make with light on top with light etc complete as per drawing. as directed.				
93	Service counter - Providing and fixing 560mm wide marble counter - Drawer - 12mm thick marine plywood finished with 1mm thick laminate @ back, top & sides, 19mm thick marine plywood with 4mm thick veneer with approved melamine polish @ front side. Top- 19+19mm thick marine plywood & 18mm thick Italian marble fixed on top with edge round. Shutters with 19mm thick marine plywood with 1mm thick laminate inside & 4mm thick veneer outside with TW beading etc. complete as per drawing. (Basic rate of Italian marble of Rs. 6500/- Sq.mt.) (Basic rate of Veneer of Rs. 2000/- Sq.mt.) (Basic rate of Laminate of Rs. 647/- Sq.mt.)	rmt	5	23750	118750
94	Console - Providing and fixing 450/400mm wide marble console - Drawer - 12mm thick marine plywood finished with 1mm thick laminate @ back, top & sides, 19mm thick marine plywood with 4mm thick veneer with approved melamine polish @ front side. Top- 19+19mm thick marine plywood & 18mm thick Italian marble fixed on top with edge round.	rmt	8	18750	150000

	Shutters with 19mm thick marine plywood with 1mm thick laminate inside & 4mm thick veneer outside with TW beading etc. complete as per drawing. (Basic rate of veneer of Rs. 2000/- Sq.mt.)				
95	Bar counter - Providing and fixing bar counter Base- 50X25X1.5mm aluminium box section @ top & bottom with 19mm thick marine plywood fixed @ top & sides, with 18mm thick marble skirting. Vertical front side - 50X25X1.5mm aluminium box section @ horizontally & vertically, 4+4mm thick flexible marine plywood finished with 4mm thick veneer with melamine polish . Vertical back side - 6mm thick corian fixed on 12mm thick marine plywood. Top & fascia - 18mm thick Italian marble fixed on 19mm thick marine plywood including provision for LED strip etc. complete as per drawing as directed. (Basic rate of Veneer of Rs. 2000/- Sq.mt.) (Basic rate of Corian of Rs. 5500/- Sq.mt.)	rmt	8	42500	340000
96	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Bed side table with drawer - 450X500X135mm high fixed on bed headboard- 12mm thick marine plywood @ top, bottom & sides finished with 4mm thick veneer with melamine polish/imported PU coating, Drawer with 12mm thick marine plywood @ bottom & sides internal finished with approved 1mm thick laminate. etc. complete as per drawing. (Basic rate of Veneer of Rs. 2000/- Sq.mt.)	Nos	10	21250	212500

97	<p>Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed.</p> <p>Bed side table with drawer - 600X600X135mm high fixed on bed headboard - 12mm thick marine plywood @ top, bottom & sides finished with 4mm thick veneer with melamine polish/imported PU coating, Drawer with 12mm thick marine plywood @ bottom & sides internal finished with approved 1mm thick laminate. etc. complete as per drawing. (Basic rate of Veneer of Rs. 2000/- Sq.mt.)</p>	Nos	6	26250	157500
98	<p>Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed.</p> <p>Tv Unit - 1500 X 300 X 256mm with 6mm thick glass shutter fixed on wall etc. complete. 19mm thick marine plywood @ back & bottom finished with 4mm thick veneer on all sides, 1500X300X86mm box with TW member of 30X50mm, 12mm thick marine plywood fixed on framework @ top finished with 4mm thick veneer with melamine polish/imported PU coating, 8mm thick marine plywood @ top, bottom, sides finished with 4mm thick approved veneer with melamine polish/imported PU coating, on all sides etc. complete. (Basic rate of Veneer of Rs. 2000/- Sq.mt.)</p>	Nos	11	25000	275000
99	<p>Providing and supplying table made up of 19/12mm thick</p>	Nos	6	26250	157500

	<p>marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed.</p> <p>Study desk with drawer - 900X600X750mm with 19mm thick marine plywood @ top, bottom & sides finished with 4mm thick veneer with melamine polish/imported PU coating, Drawer with 12mm thick marine plywood @ bottom & sides internal finished with approved 1mm thick laminate. etc. complete as per drawing. (Basic rate of Veneer of Rs. 2000/-Sq.mt.)</p>				
100	<p>Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed.</p> <p>Bed - 1550X2025mm- Including framework, 25X25mm MS angle @ 500mm C/C @ Top & bottom, 25X25mm thick TW member for support, 19+19mm thick marine plywood @ top & 12mm thick marine plywood @ sides finished with 4mm thick veneer with melamine polish/imported PU coating, 12mm thick marine plywood finished with 1mm thick laminate, 25mm thick PU foam finished with approved leatherette, 25X25mm MS cleat etc. complete as per drawing. (Basic rate of Veneer of Rs. 2000/-Sq.mt.)</p>	Nos	5	42500	212500
101	<p>Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape &</p>	Nos	5	28750	143750

	design as per drawing. all as directed. Headboard - 3300X1050mm- Out of 50x50x1.5mm Aluminium Sections at approx. 406mm wide X 488mm high centre to centre vertically and horizontally with 19mm thick marine ply finished with 4mm thick veneer finished with imported PU coating etc. complete as per drawing. (Basic rate of Veneer of Rs. 2000/- Sq.mt.)				
102	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Bed - 2075X1850mm - Including framework, 25X25mm MS angle @ 500mm C/C @ Top & bottom, 25X25mm thick TW member for support, 19+19mm thick marine plywood @ top & 12mm thick marine plywood @ sides finished with 4mm thick veneer with melamine polish/imported PU coating, 12mm thick marine plywood finished with 1mm thick laminate, 25mm thick PU foam finished with approved leatherette, 25X25mm MS cleat etc. complete as per drawing. (Basic rate of Veneer of Rs. 2000/-Sq.mt.)	Nos	3	52500	157500
103	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Headboard - 3000X2040mm - Out of 50x50x1.5mm Aluminium Sections at approx. 406mm wide X 488mm high centre to centre vertically and	Nos	3	43750	131250

	horizontally with 19mm thick marine ply finished with 4mm thick veneer finished with imported PU coating & 35mm thick high density foam padding with fabric finished of size 1800 X 990mm with 8mm thick marine ply backing etc. complete as per drawing. (Basic rate of fabric Rs. 500/rmt)				
104	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Shelves - 600mm deep shelves with 19mm thick plywood finished with 4mm thick veneer with melamine polish etc. complete as per drawing. (Basic rate of Veneer of Rs. 2000/-Sq.mt.)	rmt	6	2875	17250
105	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Book shelves -shelves with 19mm thick plywood finished with 4mm thick veneer with melamine polish etc. complete as per drawing. (Basic rate of Veneer of Rs. 2000/-Sq.mt.)	rmt	18	4250	76500
106	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Refrigerator unit of size 900X750X600mm deep- Bottom	Nos	8	27500	220000

	& Back- 19mm thick marine plywood finished with laminate, Shutter-19mm thick marine plywood finished with 4mm thick veneer with melamine polish/imported PU coating @ outer side & 1mm thick laminate @ inner side with Blum Clip top hinges, Top- 900X75X83mm deep box with 30X50mm TW member with 12mm thick marine plywood fixed on top & 8mm thick marine plywood fixed @ top, bottom & sides finished with 4mm thick veneer with melamine polish etc. complete as per drawing. (Basic rate of Veneer of Rs. 2000/-Sq.mt.)				
107	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Study desk with drawer - 1500X600X750mm with 19mm thick marine plywood @ top, bottom & sides finished with 4mm thick veneer with melamine polish/imported PU coating, Drawer with 12mm thick marine plywood @ bottom & sides internal finished with approved 1mm thick laminate. etc. complete as per drawing. (Basic rate of Veneer of Rs. 2000/-Sq.mt.)	Nos	3	27500	82500
108	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Providing and fixing Dining table- Base - 8mm thick anodized MS base plate. Vertical support- 19mm thick	Nos	2	39595.35	79190.7

	marine plywood @ top, bottom & sides with 2mm thick anodized MS plate fixed on 19mm thick marine plywood. Top - Consisting of 6mm thick anodized MS plate, 18mm thick marble with bull Nose on all sides fixed on 19mm thick marine plywood. etc. complete as per drawing as directed. (Basic rate of marble of Rs. 6500/- Sq.mt) Table of Size 1375X1100mm				
109	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Providing and fixing Dining table- Base - 8mm thick anodized MS base plate. Vertical support- 19mm thick marine plywood @ top, bottom & sides with 2mm thick anodized MS plate fixed on 19mm thick marine plywood. Top - Consisting of 6mm thick anodized MS plate, 18mm thick marble with bull Nose on all sides fixed on 19mm thick marine plywood. etc. complete as per drawing as directed. (Basic rate of marble of Rs. 6500/- Sq.mt) Table of Size 1600X1100mm	Nos	3	46076.34	138229.02
110	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Providing and fixing Dining table- Base - 8mm thick anodized MS base plate. Vertical support- 19mm thick	Nos	3	32397.46	97192.38

	marine plywood @ top, bottom & sides with 2mm thick anodized MS plate fixed on 19mm thick marine plywood. Top - Consisting of 6mm thick anodized MS plate, 18mm thick marble with bull Nose on all sides fixed on 19mm thick marine plywood. etc. complete as per drawing as directed. (Basic rate of marble of Rs. 6500/- Sq.mt) Table of Size 1375X900mm				
111	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Providing and fixing Dining table- Base - 8mm thick anodized MS base plate. Vertical support- 19mm thick marine plywood @ top, bottom & sides with 2mm thick anodized MS plate fixed on 19mm thick marine plywood. Top - Consisting of 6mm thick anodized MS plate, 18mm thick marble with bull Nose on all sides fixed on 19mm thick marine plywood. etc. complete as per drawing as directed. (Basic rate of marble of Rs. 6500/- Sq.mt) Table of Size 700X1100mm	Nos	1	20158.8	20158.8
112	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Providing and fixing Dining table- Base - 8mm thick anodized MS base plate. Vertical support- 19mm thick	Nos	2	40317.6	80635.2

	marine plywood @ top, bottom & sides with 2mm thick anodized MS plate fixed on 19mm thick marine plywood. Top - Consisting of 6mm thick anodized MS plate, 18mm thick marble with bull Nose on all sides fixed on 19mm thick marine plywood. etc. complete as per drawing as directed. (Basic rate of marble of Rs. 6500/- Sq.mt) Table of Size 1400X1100mm				
113	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Providing and fixing Dining table- Base - 8mm thick anodized MS base plate. Vertical support- 19mm thick marine plywood @ top, bottom & sides with 2mm thick anodized MS plate fixed on 19mm thick marine plywood. Top - Consisting of 6mm thick anodized MS plate, 18mm thick marble with bull Nose on all sides fixed on 19mm thick marine plywood. etc. complete as per drawing as directed. (Basic rate of marble of Rs. 6500/- Sq.mt) Table of Size 900X900mm	Nos	4	21206.33	84825.32
114	Providing and supplying table made up of 19/12mm thick marine plywood, 4mm thick veneer finished top with melamine polish/imported PU coating including supports, drawers etc. complete as directed of approved shape & design as per drawing. all as directed. Providing and fixing Dining table- Base - 8mm thick anodized MS base plate. Vertical support- 19mm thick	Nos	2	15200.42	30400.84

	marine plywood @ top, bottom & sides with 2mm thick anodized MS plate fixed on 19mm thick marine plywood. Top - Consisting of 6mm thick anodized MS plate, 18mm thick marble with bull Nose on all sides fixed on 19mm thick marine plywood. etc. complete as per drawing as directed. (Basic rate of marble of Rs. 6500/- Sq.mt) Table of size 860mm dia.				
115	Providing and Fixing corian slabs of Dupont make 6mm thick for tops of & Glacier white colour, for jambs, panelling etc. complete as directed. (Basic rate of Corian of Rs. 5500/-Sq.mt)	SqM	10	7250	72500
G	PAINTING AND POLISHING WORKS				
116	Providing and Applying 3 coats of Acrylic emulsion paint Asian paints/ equivalent on false ceiling as per design and approved shade by the Architect. Cost to include preparing the surface, applying primer, putty, etc. complete. All jambs, trims, edges, grooves to be included in SQ.M rate. No separate measurement on R.M.	SqM	1068	266.67	284803.56
117	Providing and Applying 3 coats of luster paint Asian paints/ equivalent on wall and partitions as per design and approved shade by the Architect. Cost to include preparing the surface, applying primer, putty, etc. complete. including all jambs, trims, edges, grooves to be included in SQ.M rate. No separate measurement on R.M.	SqM	985	275	270875
118	Providing and Applying 3 coats of Stucco paint Asian paints/ equivalent on wall as per design and approved shade by the Architect. Cost to include preparing the surface, applying primer, putty, etc. complete. including all jambs, trims, edges, grooves to be included in SQ.M rate. No separate measurement on R.M.	SqM	125	325	40625
119	Providing and applying Oikos or	SqM	106	2416.67	256167.02

	equivalent make internal textured paint of approved shade and colour etc. complete				
120	Providing and applying french spirit polishing : Two or more coats on new works including a coat of wood filler The material shall contain 25 ± 1 percent by weight of shellac (conforming to IS: 16-1956§) dissolved in denatured spirit (conforming to IS: 324-1959) or isopropyl alcohol or a mixture of the two together with other alcohol soluble ingredients as may be necessary so as to improve the performance of the material. etc. complete. Two or more coats on new works including a coat of wood filler	SqM	20	290.44	5808.8
H	P.O.P. & FALSE CEILING WORK				
121	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 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm 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.	SqM	785	1116.34	876326.9

	<p>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 rawal 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 up to 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 plain board conforming to IS: 2095-Part I (Basic rate of Gypsum of Rs. 207/-Sq.mt)</p>				
122	<p>Providing and fixing wooden ceiling made up of 50mm x 50mm CP teak wood suspended frame as per the fixing details given in the drawing work with 9mm Marine plywood fixed to the frame work finished with Imported veneer & melamine polish as per design and as directed etc complete.</p>	SqM	24	7903.02	189672.48
123	<p>Providing and fixing stretch ceiling which is translucent and can be back lit to be affixed with of aluminium rail the stretch fabric has a composition of a calendared special polyvinyl chloride (free of heavy metals) bearing a thickness of 0.15mm up to 0.35mm weighting up to</p>	SqM	50	21427.09	1071354.5

	<p>350gms/sq cm with a breaking strength of 185kgs/sqm length wise and 200kgs/sq cm width wise with an elongation capacity of 210% along the length and 305% along the width with the hardness of 93.5 shore A with acoustic properties where in the reverberation time at 125/250/500/1000/2000 Hz can be reduced from 1.5 to 0.7s when insulated and designed with perforation on the surface the stretch ceiling can be removable for servicing the lights</p> <p>Extra Harpoon - LED Modules NC / H2M Samsung make LED module with PCU charges for Lighting solutions along with union make Smpls (Drivers) (2 years Warranty) Fabrication Work - Providing and fixing of 150mm deep ply boxing formed of ply 19mm thk ply with salwood support as per details . Exposed surface to be finished with approved shade of emulsion paint as per details, Support to be taken from true ceiling as per details.</p>				
124	Covering floor tiles and granite flooring with PVC sheet etc. complete as directed to the satisfaction of the site engineer-in-charge.	SqM	880	112.5	99000
125	Providing and fixing 12mm thick 600 X 600mm plywood backing for fixing ceiling fixtures complete as directed.	Nos	100	1116.67	111667
I	GENERAL ITEMS				
126	Providing & fixing 8mm Doormat of Nomad / 3M / LG Synthetic Matting system in toilet area and entrance, of approved colour and size. Etc. complete.	SqM	10	3916.67	39166.7
127	Providing & installing UP plastic self watering planter boxes of approved make & colour, sizes as below etc. complete as directed. Size of Planter box @ 150mm Dia.	Nos	20	124	2480
128	Providing & installing UP plastic self watering planter boxes of	Nos	20	342	6840

	approved make & colour, sizes as below etc. complete as directed. Size of Planter box @ 225mm Dia.				
129	Providing & fixing approved type of Roller Blinds with imported mechanism, Sunscreen Fire Retardant Fabric of ferari make on windows.(Basic cost of Rs. 1200/- Sq.mt)	SqM	245	1583.33	387915.85
130	Providing & fixing wallpaper of Arte make, shade & type including 12mm thick Gypsum board backing etc. complete. (Basic cost of wallpaper of Rs. 2000/- Sq.mt.)	SqM	270	2583.33	697499.1
131	Providing and fixing stainless steel (Grade 316) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	820	792.6	649932
132	Providing & fixing SS sign ages out of 6mm thick polycarbonate coloured back panel with 2mm thick perforated SS plate with CNC cut with necessary hardware for fitting etc. complete as directed. Size 100 X 300mm	no	32	825	26400
133	Providing & fixing SS sign ages out of 6mm thick polycarbonate coloured back panel with 2mm thick perforated SS plate with CNC cut with necessary hardware for fitting etc. complete as directed. Size 200 X 200mm	no	2	950	1900

134	Providing & fixing SS sign ages out of 6mm thick polycarbonate coloured back panel with 2mm thick perforated SS plate with CNC cut with necessary hardware for fitting etc. complete as directed. Size 100 X 300mm	no	23	850	19550
135	Providing & fixing sign ages 1/8" PVC plaque with colour printing on PVC surface with UV cured links, round edges with holes for mounting with necessary hardware for fitting etc. complete as directed. Size 210 X 297mm	no	13	800	10400
136	Providing and fixing 450mm deep & 2000mm high Heavy duty slotted angle racks with 40X40X2mm thick slotted angle, Shelves LX450X 2mm thick including approved paint, corner plates, nut & bolts, plastic, rubber, etc. complete as per drawing	SqM	32	1875	60000
137	Unskilled labour for housekeeping as directed by Engineer-in-charge.	Nos	100	509.57	50957
138	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to Eighteen story height made with 40mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining in it a serviceable condition for the required duration as approved and removing it thereafter. The scaffolding system shall be stiffened with bracing, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workman etc. complete as per direction and approval of Engineer in charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment	SqM	320	221.76	70963.2

	will be made once irrespective of duration of scaffolding.				
139	Providing and fixing Aluminium Composite Panels (ACP) made out of 4 mm thick (0.25+3.5+0.25) with LDPE core coloured, matt finished panels on both sides (total thickness of the panel shall be 4mm) of approved shade ACP Z-Green fixed with aluminium frame work 40mm x 20mm (Jindal section no. 14019/88) or equivalent approved including making openings for lighting fixtures, sealing joints with weather sealant, M.S. cleat, fastener, nut bolt with scaffolding etc. complete.	SqM	5	3978.28	19891.4
J	PORTICO				
	CIVIL WORKS				
140	Earth work in excavation by Mechanical means (Hydraulic excavator) / Manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, dewatering whenever required, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. -All kinds of soil	m3	12	174.41	2092.92
141	Filling available excavated earth (excluding rock) in trenches. Plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each layer by ramming and watering, lead up to 50m and lift up to 1.5m	m3	10	174.13	1741.3
142	Dismantling carefully RCC Work including cutting bars and stacking of steel bars within MDL premises and disposal of un-serviceable material outside MDL premises to municipal dumping ground complete as directed at any height / Location etc.	m3	6	2014.1	12084.6
143	Dismantling carefully PCC Work & carting away debris outside MDL premises to municipal dumping ground complete as directed at any height / Location etc.	m3	8	1380.61	11044.88

144	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., above plinth level, excluding the cost of centering, shuttering and finishing : a) 1:1½:3 (1 cement:1½ coarse sand:3 graded stone aggregate 20 mm nominal size)	m3	12	9679.52	116154.24
145	Providing & fixing in position Centering & shuttering including strutting, propping etc. and removal of form work of approved type as directed by Engineer in charge. -Foundations, footings, bases of columns	SqM	21	268.57	5639.97
146	Providing & fixing in position Centering & shuttering including strutting, propping etc. and removal of form work of approved type as directed by Engineer in charge. -Suspended floors, roofs, landings, balconies, shelves and access platform	SqM	120	584.76	70171.2
147	DESIGN MIX CONCRETE: -Providing & laying in position machine batched, machine mixed & machine vibrated Design Mix Concrete excluding the cost of centering, shuttering, finishing & reinforcement, including admixtures in recommended proportions (as per IS 9103) to accelerate / retard setting of concrete improve workability without impairing strength and durability as etc; complete as directed for M-25 Grade reinforced cement concrete by using 330 Kg. of cement per M3 of concrete --All works up to plinth level	m3	11	8926.32	98189.52
148	DESIGN MIX CONCRETE: -Providing & laying in position machine batched, machine	m3	37	10039.05	371444.85

	<p>mixed & machine vibrated Design Mix Concrete excluding the cost of centering, shuttering, finishing & reinforcement, including admixtures in recommended proportions (as per IS 9103) to accelerate / retard setting of concrete improve workability without impairing strength and durability as etc; complete as directed for M-25 Grade reinforced cement concrete by using 330 Kg. of cement per cum of concrete --All works above plinth level up to floor V level</p>				
149	<p>Extra for providing richer mixes at all floor levels. -Providing M-35 grade concrete by using 350 kg of cement per cum of concrete instead of M-25 Grade B.M.C./R.M.C.</p>	m3	48	192.41	9235.68
150	<p>Providing & fixing in position reinforcement bars including straightening, cutting, bending, placing in position & binding with binding wires / welding where ever necessary for slabs / beams / columns; etc. all complete as directed at any location (Lapping / chairs shall be measured & paid) -Cold Twisted bars</p>	kg	7275	78.38	570214.5
151	<p>Demolishing carefully brick work of any thickness including tile work, plaster etc as directed & disposal of debris / outside MDL premises to municipal dumping ground etc. complete as directed.</p>	m3	5	1166.95	5834.75
152	<p>Providing and laying dry rubble stone hard core soling of 230mm thickness consolidated thickness in sub base to floor and in plinth protection to required levels and lines with first quality rubble, hand set, well packed including filling the interstices with smaller stone chips, Supplying and fixing & finishing/blinding the surfaces with approved blinding quality murum including watering, consolidation etc. complete as</p>	SqM	80	282.74	22619.2

	per specifications, drawings & as directed by Engineer-in-charge.				
153	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level above floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	SqM	3	947.41	2842.23
154	Providing Brick masonry with conventional / IS type bricks of greater than one brick thickness including scaffolding, watering, racking out joints etc. complete -SET IN CEMENT MORTAR (1 : 4) --In superstructure	m3	2	8033.27	16066.54
155	Providing and applying 20 mm thick waterproof cement plaster (1:4) in two coats for external surface mixed with approved waterproofing material as per manufacturer specification, curing etc; up to 10m height etc. all complete as directed.	SqM	40	349.5	13980
156	Providing and applying plastering on RCC/brick masonry work with 12 mm thick cement mortar (1:4) including curing etc; all complete as directed.	SqM	100	250.43	25043
157	Finishing walls with Acrylic Smooth exterior paint of required shade New work (Two or more coat applied @ 1.67 lit/10 SQM over and including base coat of water proofing cement paint applied @ 2.20 kg/10 SQM	SqM	140	133	18620
158	Finishing walls with textured exterior paint of required shade - Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	SqM	10	208.61	2086.1
159	Dismantling carefully tile work laid in cement mortar & carting away the same outside MDL to Municipal dumping yard complete. -For tile thickness up to 25mm Note: Items of work to be used	SqM	40	43.69	1747.6
160	Providing & laying polished vitrified floor in different sizes (thickness to be specified by the	SqM	30	2003.21	60096.3

	<p>manufacturer) with water absorption's less than 0.08% and confirming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete -Size of Tiles 60cm X 60 cm Note: Items of work to be used</p>				
161	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls up to 300 mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls up to 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick joint less cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed</p>	SqM	110	1432.67	157593.7

	with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge : With average thickness of 120 mm and minimum thickness at khurra as 65 mm.				
162	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length up to 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement , all complete as per direction of Engineer-in-charge.	SqM	110	659.95	72594.5
163	Providing and fixing machine cut, mirror / eggshell polished , Marble stone work for wall lining (vener work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural	SqM	55	11728.5	645067.5

	drawings, and as directed by the Engineer-in-Charge. a. 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc. Note: Items of work to be used				
164	Providing and fixing flooring Anti-skid vitrified tiles of approved make, colour and size 10 mm thick, including skirting & at least 25mm thick Cement Bedding on flooring in 1:4 cement mortar , fixed with tile adhesive or neat cement paste including sealing the joints with approved quality white cement mixed with approved colour to match the tiles colour or approved grouting materials including scaffolding, curing, cleaning etc. complete as directed. (Basic rate of tile of Rs 1000/- Sq.mt.)	SqM	12	2003.21	24038.52
165	Providing and fixing Composite marble of white shade for flooring & Cladding having thickness up to 18mm in required size, shade ,size as per drawing, laid over 20mm thick cement mortar 1:4 & 15mm thick backing coat plaster of CM 1:4,cleaning all as per specifications and as directed. (Basic cost of composite marble/ Agglomerate Rs. 2500/- per sq.mt.)	SqM	40	4093.82	163752.8
166	Providing and fixing 60mm thick flagstone of approved size, colour, & make strength-3 as per EN 1339:2003, characteristic bending strength >4MPa, abrasion resistance-class I as per EN 1339:2003, <18000mSqM/5000mm2 etc. complete as per manufacturer specifications.	SqM	80	1343.92	107513.6
167	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the	kg	1900	654.13	1242847

	railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).				
168	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 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm 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	SqM	30	1116.34	33490.2

	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 up to 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 plain board conforming to IS: 2095-Part I (Basic rate of Gypsum of Rs. 207/-Sq.mt)				
169	Providing and fixing GRC cornice fixed as per manufacturer specification etc. complete as per drawing. Sizes are following 850 mm wide & 750 mm ht.	rmt	25	12379	309475
170	Providing and fixing 25mm thick sheltex board between existing & new structure etc. complete.	SqM	10	1250	12500
	PILING				
171	Providing and Constructing cast in situ bored piles in M: 30 grade concrete including placing concrete by tremie pipe method and disposal of bored material outside the site, but excluding reinforcement. 300 mm dia piles	rmt	56	2200	123200
172	Empty Boring measured from the existing ground level to the cut-off levels of the piles: 300 mm dia piles	rmt	14	1400	19600
173	Extra for boring or chiseling through any obstacles, boulders, weathered rock etc., up to founding level of piles. 300 mm dia piles	rmt	7	1550	10850
174	Pile chipping 300 mm dia piles	Nos	7	500	3500

K	KITCHEN EQUIPMENT				
175	<p>WORK TABLE WITH BUILT-IN DEEP FAT FRYER-500 x 900 x 850 + 450mm HT, EQP NO - CA-01</p> <p>CONSTRUCTION : Top made of 16 gauge S.S.Sheet, with 18" high S.S.backsplash of 16 gauge, backsplash to be fully closed with 16 gauge S.S.Sheet with proper welding, with one under shelf of 18 gauge S.S.Sheet, with 1.1/2" x 1.1/2" S.S.Square pipe legs, with nylon adjustable feet. Top border shall be provided with built-in Fryer having one removable frying sink / chamber made of S.S.of size 8" x 12" x 8" deep, provided with 3 KW electrical lift up type heaters, with one removable S.S.mesh baskets, with thermostat controls mounted on rear panel, 'Zumo' German or any other approved make thermostat having Temp. range 0 to 300 deg. Centigrade provided with heat resistant Teflon coated wiring etc complete</p>	no	1	28447.09	28447.09
176	<p>SINGLE BURNER CHINESE GAS RANGE-900 x 900 x 850 + 450 BS, EQP NO - CA-02</p> <p>CONSTRUCTION: Top made of 16 gauge S.S.Sheet duly matt finished, with 18" high S.S.backsplash provided with 1 no. swivel type faucet, with 4" wide S.S.drain channel at back, provided with 1 no. H.P. burner, having special S.S.Chinese wok dome rests of 16" dia. X 3" height provided with heavy duty Cast Iron Wok rest, 20 gauge thick S.S.spillage trays with 16 gauge thick S.S.built-in handle, with sides, back and front of 18 gauge s.s, with one under shelf, burners provided shall be of 'UNITED' or 'STANDARD' make with needle control valves and pilot lamps, front panel provided with control knob and plumbing for faucet, etc complete with 1.1/2" x 1.1/2" S.S.Square pipe legs, provided with ferro 2000</p>	no	1	82075.84	82075.84

	nylon adjustable feet.				
177	WORK TABLE WITH SINK - 400 x 600 x 850 + 450, EQP NO - CA-03 CONSTRUCTION : 1" Sunken Top and sink made of 16 gauge S.S. Sheet duly matt finished, with sink of size 300 L x 300 W x 300mm deep located at rear, with 18" high S.S. backsplash, backsplash to be fully closed with 16 gauge S.S. Sheet with proper welding, with one no. 18 gauge S.S. under shelf, with 1.1/2" x 1.1/2" S.S. Square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	16245.84	16245.84
178	EXHAUST HOOD WITH LIGHT FITTINGS -2000 x 1100 x 600mm, EQP NO - CA-04 CONSTRUCTION : 18 gauge S.S.(304) Exhaust Hoods including S.S. Baffle type washable grease filters "z" type, (2" thick with 20 gauge frame & 24 gauge Louvers) Grease CUP, G.I. Volume Control Dampers, Anchor Fastener, Hangars flushed type tube light fittings etc. Front plenum will be of full length x 150mm wide for fresh air, provided with adjustable SS grill.	no	1	104113.75	104113.75
179	TANDOOR SIDE SUPPORT TABLE -325 x 600 x 900 + 150mm HT, EQP NO - IS-01 CONSTRUCTION : Top made of 16 gauge S.S. Sheet, with 150mm high S.S. backsplash of 16 gauge, backsplash to be fully closed with 16 gauge S.S. Sheet with proper welding, with two under shelves of 18 gauge S.S. Sheet, with 1.1/2" x 1.1/2" S.S. square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	14259.59	14259.59
180	S.S.TANK TANDOOR (CLAY-INSULATED) -850 x 850 x 990 HT, EQP NO - IS-02 CONSTRUCTION: Outside body completely made out of 16 gauge S.S.304 grade, inside body of m.s., provided with suitable	no	1	60510.84	60510.84

	insulation of ceramic blanket, inside Clay Tandoor shall also be provided with suitable insulation material. Top shall be finished with Green Marble and provided with 150 mm high wooden planks on the sides, whole unit shall be provided with suitable heavy duty castor wheels.				
181	TANDOOR SUPPORT TABLE - 325 x 600 x 900 + 150mm HT, EQP NO - IS-03 CONSTRUCTION: Top made of 16 gauge S.S. Sheet, with 150mm high S.S. backsplash, backsplash to be fully closed with 16 gauge S.S. Sheet with proper welding, with 2 Nos. under shelves of 18 gauge S.S. Sheet, 1.1/2" x 1.1/2" S.S. square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	14259.59	14259.59
182	S.S BACKSPLASH FOR WALL FITTING -600 + 850 x 19 x 1200mm HT, EQP NO - IS-04 CONSTRUCTION: Completely made out of 16 gauge thick pre-buffed imported S.S. Sheets provided with necessary holes for fixing it on wall so as to be absolutely flush with the tile surface.	no	1	17664.59	17664.59
183	EXHAUST HOOD WITH LIGHT FITTINGS -1100 x 1000 x 600mm HT,EQP NO - IS-05 CONSTRUCTION : 18 Gauge S.S.(304) Exhaust Hoods including S.S. Baffle type washable grease filters "z" type, (2" thick with 20 gauge frame & 24 gauge Louvers) Grease CUP, G.I. Volume Control Dampers, Anchor Fastener, Hangars flushed type tube light fittings etc. Front plenum will be of full length x 150mm wide for fresh air, provided with adjustable SS grill.	no	1	67226.25	67226.25
184	THREE BURNER GAS RANGE WITH SINGLE UNDERSHELF BELOW - 1570 x 600 x 850 + 150mm HT,EQP NO - IS-06 CONSTRUCTION : Top border of 16 gauge S.S. sheet, with	no	1	75738.75	75738.75

	150mm high S.S. backsplash of 16 gauge, backsplash to be fully closed with 16 gauge S.S. Sheet with proper welding, provided with 3 Nos. H.P. L.P.G. burners (1,00,000 btu each), burners provided shall be of 'UNITED' or 'STANDARD' make, 3 Nos. 14" x 14" heavy duty cast iron vessel rests, one under shelf of 18 g thick S.S. Sheet to be provided, all burners provided with needle control valves and pilot lamps, with 1.1/2" x 1.1/2" S.S. square pipe legs, provided with Ferro 2000 nylon adjustable feet.				
185	WORK TABLE WITH 2 UNDERSHELVES BELOW-400 x 600 x 850 + 150mm HT,EQP NO - IS-07 CONSTRUCTION: Top made of 16 gauge S.S. Sheet, with 150mm high S.S. backsplash, backsplash to be fully closed with 16 gauge S.S. Sheet with proper welding, with 2 Nos. under shelves of 18 gauge S.S. Sheet, with 1.1/2" x 1.1/2" S.S. square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	15394.59	15394.59
186	EXHAUST HOOD WITH LIGHT FITTINGS -1800 x 1000 x 600mm HT,EQP NO - IS-08 CONSTRUCTION : 18 gauge S.S.(304) Exhaust Hoods including S.S. Baffle type washable grease filters "z" type, (2" thick with 20 gauge frame & 24 gauge Louvers) Grease CUP, G.I. Volume Control Dampers, Anchor Fastener, Hangars flushed type tube light fittings etc. Front plenum will be of full length x 150mm wide for fresh air, provided with adjustable SS grill.	no	1	96357.92	96357.92
187	S.S BACKSPLASH FOR WALL FITTING -1800 x 19 x1200mm HT,EQP NO - IS-09 CONSTRUCTION: Completely made out of 16 gauge thick pre-buffed imported S.S. Sheets provided with necessary holes for fixing it on wall so as to be	no	1	19745.42	19745.42

	absolutely flush with the tile surface				
188	<p>TWO DOOR UNDERCOUNTER REFRIGERATOR-1375 x 700 x 850 + 150mm HT,EQP NO - IS-10</p> <p>CONSTRUCTION : Top of 16 gauge S.S. Sheet , duly matt finished, with 150mm high S.S. backsplash, with sides and back of 18 gauge S.S. Sheet, front provided with insulated 18 gauge S.S. shutters with locking arrangement, 304 quality S.S. duly matt finished and provided with magnetic gaskets, shutter contact frame to be made of 16 gauge magnetic steel 410 quality, interior to be provided with 2 Nos. removable S.S. wire rod shelves, sides of interior provided with S.S. adjustable clip angle arrangement for adjusting shelf position, provided with 2 Nos. removable S.S. wire rod shelves per compartment, shutters provided with heavy duty C.P self closing hinges with suitable locking arrangement, compartments to have 2 to 6 degrees Centigrade temperature range, Unit to have static cooling system and constructed of S.S pipe base framework, insulated with PUF insulation, condensing unit with sealed compressor of Copeland make (Emerson Technologies) shall be provided on RHS and provided with sub-zero make digital temperature Indicator and suitable thermostat, with legs made of 2" dia. S.S. pipe provided with Ferro 2000 adjustable nylon feet.</p>	no	1	88318.34	88318.34
189	<p>WALL MOUNTED DUAL DECK - 1375 X 350 X 600mm HT,EQP NO - IS-11</p> <p>CONSTRUCTION: Three shelves of 16 gauge S.S. creating two compartments, both sides and back to be made out of 18 gauge S.S.Sheet, duly matt finished, with suitable bolting arrangement for wall mounting.</p>	no	1	17097.09	17097.09

190	EXHAUST HOOD WITH LIGHT FITTINGS -1700 X 1000 X 600mm HT,EQP NO - IS-12 CONSTRUCTION : 18 gauge S.S.(304) Exhaust Hoods including S.S. Baffle type washable grease filters "z" type, (2" thick with 20 gauge frame & 24 gauge Louvers) Grease CUP, G.I. Volume Control Dampers, Anchor Fastener, Hangars flushed type tube light fittings etc. Front plenum will be of full length x 150mm wide for fresh air, provided with adjustable SS grill.	no	1	90682.92	90682.92
191	HOT PLATE / DOSA PLATE -850 X 600 X 850 + 150mm HT,EQP NO - IS-13 CONSTRUCTION: L.P.G. operated, top provided with 20 mm thick polished M.S. plate fitted on S.S.angle frame work clad with S.S. provided with oil drain in front with sides and back of 18 gauge S.S.Sheet, with S.S. dray tray, with raised S.S. border on three sides, with S.S. front panel, with 3 Nos. x RV 900 tube burners provided below plate, shall be of 'UNITED' or 'STANDARD' make with needle control valves, pilot lamp, copper pig tail connections, etc complete with single 18 gauge S.S. Sheet under shelf, with 1.1/2" x 1.1/2" S.S. square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	45755.84	45755.84
192	DOSA SUPPORT TABLE -860 X 600 X 850 + 150mm HT,EQP NO - IS-14 CONSTRUCTION: Top made of 16 gauge S.S. Sheet, with 150mm high S.S. backsplash, top provided with cut outs for 6 Nos. S.S. containers with lids of overall size 7" x 7" ht. (containers to be provided), with 2 Nos. under shelves of 18 gauge S.S.Sheet, with 1.1/2" x 1.1/2" S.S.Square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	19177.92	19177.92

193	S.S BACKSPLASH FOR WALL FITTIN-1700 + 600 X 19 X 1200mm HT,EQP NO - IS-15 CONSTRUCTION: Completely made out of 16 gauge thick pre-buffed imported S.S. Sheets provided with necessary holes for fixing it on wall so as to be absolutely flush with the tile surface	no	1	24947.5	24947.5
194	WORK TABLE WITH 2 UNDERSHELVES BELOW-1580 X 500 X 850 + 150mm HT, EQP NO - PP-01 CONSTRUCTION: Top made of 16 gauge S.S. Sheet, with 150mm high S.S. backsplash, backsplash to be fully closed with 16 gauge S.S. Sheet with proper welding, unit shall be closed on all three sides with 18 gauge S.S. Sheet and provided with 2 Nos. under shelves of 18 gauge S.S. Sheet, with 1.1/2" x 1.1/2" S.S. square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	32419.59	32419.59
195	WALL MOUNTED DUAL DECK RACK -1580 X 300 X 600mm HT, EQP NO- PP-02 CONSTRUCTION: Three shelves of 16 gauge S.S. creating two compartments, both sides and back to be made out of 18 gauge S.S. Sheet, duly matt finished, with suitable bolting arrangement for wall mounting.	no	1	18894.17	18894.17
196	TWO DOOR UNDERCOUNTER REFRIGERATOR-1500 X 700 X 850 +150mm HT,EQP NO- PP-03 CONSTRUCTION : Top of 16 gauge S.S. Sheet , duly matt finished, with 150mm high S.S. backsplash, with sides and back of 18 gauge S.S. Sheet, front provided with insulated 18 gauge S.S. shutters with locking arrangement, 304 quality S.S. duly matt finished and provided with magnetic gaskets, shutter contact frame to be made of 16 gauge magnetic steel 410 quality, interior to be provided with 2 Nos. removable S.S. wire rod shelves, sides of interior	no	1	92480	92480

	provided with S.S. adjustable clip angle arrangement for adjusting shelf position, provided with 2 Nos. removable S.S. wire rod shelves per compartment, shutters provided with heavy duty c.p. self closing hinges with suitable locking arrangement, compartments to have 2 to 6 degrees Centigrade temperature range, Unit to have static cooling system and be constructed of S.S. pipe base framework, insulated with PUF insulation, condensing unit with sealed compressor of Copeland make (Emerson Technologies) shall be provided on LHS and provided with sub-zero make digital temperature Indicator and suitable thermostat, with legs made of 2" dia. S.S.pipe provided with Ferro 2000 adjustable nylon feet.				
197	WALL MOUNTED DUAL DECK RACK -2150 X 350 X 600mm HT, EQP NO- PP-04 CONSTRUCTION: Three shelves of 16 gauge S.S. creating two compartments, both sides and back to be made out of 18 gauge S.S. Sheet, duly matt finished, with suitable bolting arrangement for wall mounting.	no	1	24285.42	24285.42
198	WORK TABLE WITH SINK AND 2 UNDERSHELVES BELOW -1500 X 600 X 850 + 150mm HT, EQP NO- PP-05 CONSTRUCTION: Top and sink made of 16 gauge S.S. Sheet duly matt finished, with sink of size 450 L x 450 W x 300mm deep located at LHS provided with heavy duty 1 1/2" dia. S.S. waste coupling, with 150mm high S.S. backsplash, backsplash to be fully closed with 16 gauge S.S. Sheet with proper welding, with one no. 18 gauge S.S. under shelves below sink and 2 Nos. 18 gauge under shelves in the remaining part of the table, front of sink to be covered with S.S.apron piece, with 1.1/2" x 1.1/2" S.S.Square pipe legs, provided with Ferro	no	1	38567.5	38567.5

	2000 nylon adjustable feet.				
199	<p>WORK TABLE WITH 2 UNDERSHELVES BELOW-600 X 600 X 850 + 150mm HT, EQP NO- PP-06</p> <p>CONSTRUCTION : Top made of 16 gauge S.S. Sheet, with 150mm high S.S. backsplash, backsplash to be fully closed with 16 guage S.S. Sheet with proper welding, with 2 Nos. under shelf of 18 gauge S.S. Sheet, with 1.1/2" x 1.1/2" S.S. square pipe legs, provided with Ferro 2000 nylon adjustable feet.</p>	no	1	16529.59	16529.59
200	<p>WALL MOUNTED DUAL DECK RACK -1800 X 300 X 600mm HT, EQP NO- PP-07</p> <p>CONSTRUCTION: Three shelves of 16 gauge S.S. creating two compartments, both sides and back to be made out of 18 gauge S.S. Sheet, duly matt finished, with suitable bolting arrangement for wall mounting.</p>	no	1	21731.67	21731.67
201	<p>CHARBROILER GRILL WITH STAND AND ONE UNDERSHELF - 700 X 865 X 850 + 150mm HT,EQP NO- CS-01</p> <p>CONSTRUCTION: Top of 16 gauge S.S. Sheet, duly matt finished, with 150mm high S.S. backsplash, with sides and back of 18 gauge S.S. Sheet, of 304 quality S.S. duly matt finished, Unit shall have four Nos. top serrated cast iron grilles of approx. 450 mm length for roasting, four Nos. 475 mm long cast iron (square hole) jalis for holding lava stones, 2 Nos. x 300 mm long RV300 burners, shall be of 'UNITED' or 'STANDARD' make, suitable cast iron protective caps for burners, needle control valves, pilot burner, copper pig tail connections, with 1.1/2" x 1.1/2" S.S. square pipe legs, provided with Ferro 2000 nylon adjustable feet, etc complete along with supply of approx. 10-12 kgs of lava stones for the char broiler</p>	no	1	92669.17	92669.17

202	<p>PASTA BOILER WITH STAND AND ONE UNDERSHELF -580 X 865 X 850 + 150mm HT,EQP NO- CS-02</p> <p>CONSTRUCTION: Top border made of 16 gauge S.S. Sheet, duly matt finished, with 150mm high S.S. backsplash, with sides and back of 18 gauge S.S. Sheet, of 304 quality S.S. duly matt finished, provided with open well tank (Hot Bain Marie) made out of 18 gauge thick s.s.sheet 304 grade, provided with suitable 3 KW electrical water immersion S.S.heating elements with suitable thermostat 0 to 110 deg. Centigrade, indicator lamps, Teflon coated heat resistant wiring, etc complete. Unit shall be provided with four Nos. S.S. baskets suitable for boiling pasta, with one open under shelf of 18 gauge S.S. Sheet, front of tank to be covered with S.S.apron piece and provided with control panel, with 1.1/2" x 1.1/2" S.S. square pipe legs, provided with Ferro 2000 nylon adjustable feet.</p>	no	1	27217.5	27217.5
203	<p>FOUR BURNER GAS RANGE WITH OVEN (ELECTRIC) BELOW -850 X 865 X 850 + 150mm HT,EQP NO- CS-03</p> <p>CONSTRUCTION: Top border of 16 gauge S.S. Sheet, with 150mm high S.S. backsplash, backsplash to be fully closed with 16 gauge S.S. Sheet with proper welding, provided with 2 Nos. low pressure burners (21,000 BTU Each) at front and 2 Nos. high pressure burners at rear (70,000 BTU each), all LPG burners to be provided shall be of 'UNITED' or 'STANDARD' make with heavy duty 350 x 350 mm c.iron vessel rests, with sides and back of 18 gauge s.s., with 20 gauge S.S. drip trays with 16 gauge thick S.S. built in handles, with S.S. control panel, 'Zumo' German or any other approved make thermostat having Temp. range 0 to 300 deg. Centigrade provided with</p>	no	1	127665	127665

	rotary switch, heat resistant Teflon coated wiring etc complete, burners to be provided with needle control valves and pilot lamps, underside to be provided with 6 KW III phase electrically operated oven with full S.S.door having small glass viewing panel, provided with S.S.wire shelf, one 10 mm thick M.S. plate and with 1.1/2" x 1.1/2" S.S.Square pipe legs, provided with Ferro 2000 nylon adjustable feet.				
204	EXHAUST HOOD WITH LIGHT FITTING-2300 X 1200 X 600mm HT, EQP NO- CS-04 CONSTRUCTION : 18 gauge S.S.(304) Exhaust Hoods including S.S.Baffle type washable grease filters "z" type, (2" thick with 20 gauge frame & 24 gauge Louvers) Grease CUP, G.I. Volume Control Dampers, Anchor Fastner, Hangars flushed type tube light fittings etc. Front plenum will be of full length x 150mm wide for fresh air, provided with adjustable SS grill.	no	1	134002.09	134002.09
205	S.S BACKSPLASH FOR WALL FITTING-2300 + 865 X 19 X 1200mm HT, EQP NO- CS-04A CONSTRUCTION: Completely made out of 16 gauge thick pre-buffed imported S.S.Sheets provided with necessary holes for fixing it on wall so as to be absolutely flush with the tile surface	no	1	32514.17	32514.17
206	WORK TABLE WITH 2 UNDERSHELVES BELOW-400 X 865 X 850 + 150mm HT, EQP NO- CS-05 CONSTRUCTION: Top made of 16 gauge S.S.Sheet, with 150mm high S.S.backsplash, backsplash to be fully closed with 16 gauge S.S.Sheet with proper welding, with 2 Nos. under shelves of 18 gauge S.S.Sheet, with 1.1/2" x 1.1/2" S.S.Square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	16340.42	16340.42

207	WORK TABLE WITH TWIN CHAMBER DEEP FAT FRYER (BUILT-IN) -650 X 865 X 850 + 150mm HT,EQP NO- CS-06 CONSTRUCTION : Top made of 16 gauge S.S. Sheet, with 4" high S.S.backsplash of 16 gauge, backsplash to be fully closed with 16 gauge S.S. Sheet with proper welding, with one under shelf of 18 gauge S.S. Sheet, with 1.1/2" x 1.1/2" S.S. square pipe legs, with nylon adjustable feet. Top border shall be provided with built-in Fryer having two removable frying sinks / chambers made of S.S. of size 8" x 12" x 8" deep, each chamber provided with 3 KW electrical lift up type heaters with one removable S.S. mesh baskets, separate approved make of thermostat controls mounted on rear panel, indicator lamps, heat resistant Teflon coated wiring etc complete	no	1	41121.25	41121.25
208	WORK TABLE WITH 2 UNDERSHELVES BELOW-400 X 865 X 850 + 150mm HT, EQP NO- CS-07 CONSTRUCTION: Top made of 16 gauge S.S. Sheet, with 150mm high S.S. backsplash, backsplash to be fully closed with 16 gauge S.S. Sheet with proper welding, with 2 Nos. under shelves of 18 gauge S.S. Sheet, with 1.1/2" x 1.1/2" S.S. square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	16340.42	16340.42
209	EXHAUST HOOD WITH LIGHT FITTINGS -1300 X 1200 X 600mm HT,EQP NO- CS-08 CONSTRUCTION : 18 gauge S.S.(304) Exhaust Hoods including S.S. Baffle type washable grease filters "z" type, (2" thick with 20 gauge frame & 24 gauge Louvers) Grease CUP, G.I. Volume Control Dampers, Anchor Fastner, Hangars flushed type tube light fittings etc. Front plenum will be of full length x 150mm wide for fresh air, provided with adjustable SS	no	1	81130	81130

	grill.				
210	S.S BACKSPLASH FOR WALL FITTING-1300 + 700 X 19 X 1200mm HT,EQP NO- CS-08A CONSTRUCTION: Completely made out of 16 gauge thick pre-buffed imported S.S. Sheets provided with necessary holes for fixing it on wall so as to be absolutely flush with the tile surface	no	1	24096.25	24096.25
211	WORK TABLE WITH SINK -600 X 700 X 850mm HT,EQP NO-CS-09 CONSTRUCTION : Top made of 16 gauge S.S. Sheet, with provision for deck mounted tap, unit shall be closed on three sides with 18 gauge S.S. Sheet with proper welding, with 1" sunken Top (only sink portion to be sunken, rest portion to be plain work top) and sink made of 16 gauge S.S. Sheet, sink of size 450 x 450 x 300 mm deep to be on rear side, with back to be fully closed but with removable panel for accessing tap and drain outlet fittings, front of sink to be covered with S.S. apron piece and shall be made out of 16 gauge S.S. Sheet with proper welding, under construction made of S.S. sink provided with 1 1/2" dia. heavy duty S.S. waste coupling, with 1.1/2" x 1.1/2" S.S.Square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	17380.84	17380.84
212	SALAMANDER-750 X 350 X 350mm HT, EQP NO- CS-10 CONSTRUCTION: Sides and top of 16 gauge S.S sheet, with 20 gauge S.S sheet double walled interior, with mineral glass wool insulation, with 3KW electrical heating element fitted at top, provided with S.S.rod grill with two insulated handles, with indicating light, approved brand of thermostat control, rotary switch, 'Zumo' German or any other approved make thermostat having Temp. range 0 to 300 deg. Centigrade provided with heat resistant Teflon coated	no	1	24001.67	24001.67

	wiring etc complete, heat resistant Teflon coated wiring provided with suitable arrangement for mounting on the overhead shelf.				
213	TWO DOOR UNDERCOUNTER REFRIGERATOR-1375 X 700 X 850mm HT, EQP NO- CS-11 CONSTRUCTION : Top of 16 gauge S.S. Sheet , duly matt finished, with sides and back of 18 gauge S.S. Sheet, front provided with insulated 18 gauge S.S. shutters with locking arrangement, 304 quality S.S. duly matt finished and provided with magnetic gaskets, shutter contact frame to be made of 16 gauge magnetic steel 410 quality, interior to be provided with 2 Nos. removable S.S. wire rod shelves, sides of interior provided with S.S. adjustable clip angle arrangement for adjusting shelf position, provided with 2 Nos. removable S.S. wire rod shelves per compartment, shutters provided with heavy duty C.P self closing hinges with suitable locking arrangement, compartments to have 2 to 6 degrees Centigrade temperature range, Unit to have static cooling system and be constructed of S.S pipe base framework, insulated with PUF insulation, condensing unit with sealed compressor of Copeland make (Emerson Technologies) shall be provided on LHS and provided with sub-zero make digital temperature Indicator and suitable thermostat, with legs made of 2" dia. S.S.pipe provided with Ferro 2000 adjustable nylon feet.	no	1	88318.34	88318.34
214	OVERHEAD SHELVING ARRANGEMENT WITH HEAT BULBS-1975 X 300 X 850 + 400 + 400mm HT, EQP NO- CS-12 CONSTRUCTION: Unit shall be provided with 2 Nos. 12" wide overhead double shelving arrangement made out of 18 gauge thick 304 grade S.S. Sheets and provided with 3 Nos.	no	1	62024.17	62024.17

	infra white heat bulbs fitted in an S.S. insulated canopy & provided with operating toggle switches on both sides of the counter, with teflon coated heat resistant wiring, etc complete, unit shall be sturdily mounted and supported with S.S.1 1/4" x 1 1/4" square pipe with suitable arrangement and fitted on to the pick-up counter below at height 400 mm (lower shelf) + 400 mm (top Shelf)				
215	PICK UP COUNTER WITH THREE SIDES CLOSED AND TWO UNDERSHELVES BELOW-825 X 700 X 850mm HT, EQP NO- CS-13 CONSTRUCTION: Top made of 16 gauge S.S. Sheet, with three sides closed body with 16 gauge S.S. Sheet with proper welding, with 2 Nos. under shelves of 18 gauge S.S. Sheet, with 1.1/2" x 1.1/2" S.S. square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	29487.5	29487.5
216	OVERHEAD SHELVING ARRANGEMENT WITH HEAT BULBS-825 X 300 X 850 + 400 + 400mm HT,EQP NO- CS-14 CONSTRUCTION: Unit shall be provided with 2 Nos. 12" wide overhead double shelving arrangement made out of 18 gauge thick 304 grade S.S. Sheets and provided with 3 Nos. infra white heat bulbs fitted in an S.S. insulated canopy & provided with operating toggle switches on both sides of the counter, with Teflon coated heat resistant wiring, etc complete, unit shall be sturdily mounted and supported with S.S.1 1/4" x 1 1/4" square pipe with suitable arrangement and fitted on to the pick-up counter below at height 400 mm (lower shelf) + 400 mm (top Shelf)	no	1	30433.34	30433.34
217	SOILED DISH LANDING TABLE WITH OVERHEAD SHELF-1350 X 700 X 850 + 500 + 250mm HT,EQP NO- DW-01 CONSTRUCTION: Top consisting	no	1	48025.84	48025.84

	<p>of 4" deep trough made of 16 gauge S.S. Sheet with rounded corners, duly matt finished, with complete under construction of S.S. angle frame, with garbage chute of 150mm dia. at LHS from waiter's side, provided with cutlery basin of 325 x 265mm x 200mm depth (with one extra cutlery basin provided) on Lhs. at front and 38mm dia. waste coupling on rhs. at rear, with 16 gauge S.S. perforated shelf fitted at height 20" ht + 10" ht, with overhead pipe frames above made of 1' dia. S.S.pipe for resting of glass racks on either side, under-counter provision for keeping extra racks of Dishwasher shall be made by making suitable angle rack arrangement so that extra racks can be made to slide in easily, unit to be provided with 1.1/2" x 1.1/2" S.S.Square pipe legs, provided with Ferro 2000 nylon adjustable feet.</p>				
218	<p>LOADING TABLE WITH SINK-770 X 750 X 850 + 150mm HT,EQP NO- DW-02 CONSTRUCTION: Top and sink made of 16 gauge S.S.Sheet with sunkun top, 150mm high S.S.backsplash, backsplash to be fully closed with 16 gauge S.S. Sheet with proper welding, sink of 425 x 425 x 300mm deep, under construction made of s.s., sink provided with heavy duty 1 1/2" dia. S.S.waste coupling and butterfly valve below waste coupling, sink provided with S.S. perforated basket, with 16 gauge S.S.plate below each sink at cross bracing level to support extension pipe below butterfly valve, front of sink to be covered with S.S. apron piece, sink unit to be provided with raised border type lipping closed on three sides, open only at RHS, with raw beading to synchronize with dish washing machine lip, with 1.1/2" x 1.1/2" S.S.Square pipe legs, provided with Ferro 2000</p>	no	1	34878.75	34878.75

	nylon adjustable feet and with necessary cross bracing for strengthening.				
219	WALL MOUNTED DUAL DECK RACK -650 X 350 X 600mm HT,EQP NO- DW-03 CONSTRUCTION: Three shelves of 16 gauge S.S.creating two compartments, both sides and back to be made out of 18 gauge S.S.Sheet, duly matt finished, with suitable bolting arrangement for wall mounting.	no	1	11800.42	11800.42
220	DISHWASHER MACHINE -752 X 755 X 1547mm HT,EQP NO-DW-04 Hood Type Dishwasher (Electrolux make - Model: EHT8ROW)	no	1	238516.67	238516.67
221	OFF LOADING TABLE WITH TWO SINKS -1280 X 750 X 850 + 150mm HT, EQP NO- DW-05 CONSTRUCTION: Top and 2 sinks made of 16 gauge S.S.Sheet, with 150 mm high S.S.backsplash, backsplash to be fully closed with 16 gauge S.S.Sheet with proper welding, sinks of 425 x 425 x 300mm deep, under construction made of s.s., each sink provided with heavy duty 1 ½" dia. S.S.waste coupling waste coupling and butterfly valve below waste coupling, with 16 gauge S.S. plate below each sink at cross bracing level to support extension pipe below butterfly valve, both sinks to double as pre-wash sinks for dish washing machine, front of sink to be covered with S.S.apron piece, unit to be provided with raised border type lipping closed on three sides, open only at LHS., with raw bedding to synchronize with the dish washing machine lip, with 1.1/2" x 1.1/2" S.S.Square pipe legs, provided with Ferro 2000 nylon adjustable feet and with necessary cross bracing for strengthening.	no	1	43107.5	43107.5
222	WALL MOUNTED DUAL DECK RACK -1150 X 350 X 600mm HT,EQP NO- DW-06	no	1	15583.75	15583.75

	CONSTRUCTION: Three shelves of 16 gauge S.S. creating two compartments, both sides and back to be made out of 18 gauge S.S. Sheet, duly matt finished, with suitable bolting arrangement for wall mounting.				
223	FLOOR STANDING CLEAN RACK -1200 X 450 X 1800mm HT,EQP NO- DW-07 CONSTRUCTION: Five shelves made of 18 gauge S.S. Sheet, duly reinforced with S.S. 'c' channel stiffener from underneath, shelves shall be mounted on S.S. angles, with 1.1/2" x 1.1/2" S.S. Square pipe verticals, provided with Ferro 2000 nylon adjustable feet.	no	1	37810.84	37810.84
224	FLOOR STANDING CLEAN RACK -1600 X 450 X 1800mm HT,EQP NO- DW-08 CONSTRUCTION: Five shelves made of 18 gauge S.S. Sheet, duly reinforced with S.S. 'c' channel stiffener from underneath, shelves shall be mounted on S.S. angles, with 1.1/2" x 1.1/2" S.S. Square pipe verticals, provided with Ferro 2000 nylon adjustable feet.	no	1	42918.34	42918.34
225	WORK TABLE WITH SINK AND ONE UNDERSHELF BELOW-600 X 600 X 850 + 150mm HT,EQP NO- MS-01 CONSTRUCTION : Top sunken made of 16 gauge S.S. Sheet, unit shall be closed on LHS with 18 gauge S.S. Sheet with proper welding, with 1" sunken Top and sink made of 16 gauge S.S. Sheet, sink of size 450 x 450 x 300 mm deep to be on rear side, front of sink to be covered with S.S. apron piece and shall be made out of 16 gauge S.S. Sheet with proper welding, provided with one under shelf made out of 18 gauge S.S. Sheet 304 grade, under construction made of S.S. sink provided with heavy duty 1 1/2" dia. S.S. waste coupling, with 1.1/2" x 1.1/2" S.S. Square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	28447.09	28447.09

226	WALL MOUNTED DUAL DECK RACK -600 X 300 X 600mm HT,EQP NO- MS-02 CONSTRUCTION: Three shelves of 16 gauge S.S. creating two compartments, both sides and back to be made out of 18 gauge S.S. Sheet, duly matt finished, with suitable bolting arrangement for wall mounting.	no	1	10476.25	10476.25
227	TILTING TYPE MASALA GRINDE-STD.-10 LIT. CAPACITY,EQP NO- MS-03 & 04 CONSTRUCTION : Machine provided with stainless steel channel frame over which tilt able stainless steel container is suspended, provided with a motor driven shaft with two side granite rollers fitted over a granite bottom grinding stone, provided with lift able stainless steel cover, with lockable arrangement both in the upright position and in the tilted condition for safety, with 1 HP motor, with S.S. base frame .	Nos	2	33176.25	66352.5
228	FLOOR STANDING STORAGE RACK-900 X 450 X 1830mm HT,EQP NO- ST-01 CONSTRUCTION: Five shelves made of 18 gauge S.S. Sheet, duly reinforced with S.S.'c' channel stiffener from underneath, shelves shall be mounted on S.S. angles, with 1.1/2" x 1.1/2" S.S. Square pipe verticals, provided with Ferro 2000 nylon adjustable feet.	no	1	35162.5	35162.5
229	FLOOR STANDING STORAGE RACK-1200 X 450 X 1830mm HT,EQP NO- ST-02,03,04 CONSTRUCTION: Five shelves made of 18 gauge S.S. Sheet, duly reinforced with S.S.'c' channel stiffener from underneath, shelves shall be mounted on S.S. angles, with 1.1/2" x 1.1/2" S.S. Square pipe verticals, provided with Ferro 2000 nylon adjustable feet.	Nos	3	37810.84	113432.52
230	WORK TABLE WITH DRAWER AND STORAGE CABINET BELOW HAVING TWO UNDERSHELVES AND TWO	no	1	42540	42540

	<p>SLIDING SHUTTERS-840 X 700 X 850 + 150mm HT,EQP NO-PT-01</p> <p>CONSTRUCTION: Top made of 16 gauge S.S. Sheet, duly matt finished, all three sides closed body, sides and back of 18 gauge S.S. Sheet, framework of S.S. angle, with two drawers made out of 18 gauge thick S.S. Sheet with built in handles provided and mounted on imported made in 'Germany' 'Hettich' make telescopic drawer slides, with storage below provided with top hung sliding shutters with suitable locking arrangement, with 2 Nos. 18 gauge thick S.S. under shelves, with 1.1/2" x 1.1/2" S.S. Square pipe legs, provided with Ferro 2000 nylon adjustable feet.</p>				
231	<p>TWO DOOR UNDERCOUNTER REFRIGERATOR WITH COLD BAIN MARIE ON WORK TOP SUITABLE FOR KEEPING 1/6 SIZE GN PANS -1375 X 700 X 850mm HT,EQP NO- PT-03</p> <p>CONSTRUCTION: Top of 16 gauge S.S. Sheet , duly matt finished, provided with raised insulated sloping trough cold Bain Marie accommodating 6 Nos. - 1/6 x 100 mm deep GN S.S. pans with transparent polycarbonate covers, with sides and back of 18 gauge S.S. Sheet, front provided with insulated 18 gauge S.S. shutters with locking arrangement, 304 quality S.S. duly matt finished and provided with magnetic gaskets, shutter contact frame to be made of 16 gauge magnetic steel 410 quality, interior to be provided with 2 Nos. removable S.S. wire rod shelves, sides of interior provided with S.S. adjustable clip angle arrangement for adjusting shelf position, provided with 2 Nos. removable S.S. wire rod shelves per compartment, shutters provided with heavy duty C.P. self closing hinges with suitable locking arrangement, compartments to</p>	no	1	95695.84	95695.84

	have 2 to 6 degrees Centigrade temperature range, Unit to have static cooling system and be constructed of S.S pipe base framework, insulated with PUF insulation, condensing unit with sealed compressor of Copeland make (Emerson Technologies) shall be provided on LHS and provided with sub-zero make digital temperature Indicator and suitable thermostat, with legs made of 2" dia. S.S.pipe provided with Ferro 2000 adjustable nylon feet.				
232	SINGLE COMPARTMENT SANDWICH GRILLER-300 X 350 X 350mm HT, EQP NO- PT-04 CONSTRUCTION: Single compartment type, top covers made of 18 gauge 304 grade S.S sheet, with 15mm dia. S.S.pipe handles, with heavy duty M.S cast iron griller plates, with front control panel having complete electrical controls including 'Zumo' German make or approved brand of thermostat, indicator lamps, heat resistant Teflon coated wiring, etc complete.	no	1	16245.84	16245.84
233	TOASTER-STD-EQP NO- PT-05 MAKE: Phillips HD 2647 – Pop-Up Toaster	no	1	4517.5	4517.5
234	WORK TABLE WITH 2 UNDERSHELVES BELOW - 1100 X 700 X 850 + 150mm HT, EQP NO- PT-08 CONSTRUCTION: Top made of 16 gauge S.S. Sheet, with 150mm high S.S. backsplash, backsplash to be fully closed with 16 gauge S.S. Sheet with proper welding, with 2 Nos. under shelves of 18 gauge S.S. Sheet, with 1.1/2" x 1.1/2" S.S. Square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	25231.25	25231.25
235	WALL MOUNTED DUAL DECK RACK -1100 X 350 X 600mm HT, EQP NO- PT-09 CONSTRUCTION: Three shelves of 16 gauge S.S. creating two compartments, both sides and	no	1	14259.59	14259.59

	back to be made out of 18 gauge S.S. Sheet, duly matt finished, with suitable bolting arrangement for wall mounting.				
236	WORK TABLE WITH SINK ON LHS AND SINGLE UNDERSHELF BELOW-1100 X 700 X 850 + 150mm HT, EQP NO- PT-10 CONSTRUCTION : Top sunken made of 16 gauge S.S. Sheet, unit shall be closed on LHS with 18 gauge S.S. Sheet with proper welding, with 1" sunken Top and sink made of 16 gauge S.S. Sheet, sink of size 450 x 450 x 300 mm deep to be on rear side, front of sink to be covered with S.S. apron piece and shall be made out of 16 gauge S.S. Sheet with proper welding, provided with one under shelf made out of 18 gauge S.S. Sheet 304 grade, under construction made of S.S, sink provided with heavy duty 1 1/2" dia. S.S. waste coupling, with 1.1/2" x 1.1/2" S.S. Square pipe legs, provided with Ferro 2000 nylon adjustable feet.	no	1	29676.67	29676.67
237	WALL MOUNTED DUAL DECK RACK -1100 X 350 X 600mm HT, EQP NO- PT-11 CONSTRUCTION: Three shelves of 16 gauge S.S. creating two compartments, both sides and back to be made out of 18 gauge S.S. Sheet, duly matt finished, with suitable bolting arrangement for wall mounting	no	1	14259.59	14259.59
238	S.S WORK TABLE WITH TWO UNDERSHELVES AND ANGLE RACK BELOW FOR KEEPING BAKING TRAYS-1100 X 700 X 865 + 150mm HT, EQP NO- PT-12 CONSTRUCTION: Top made of 16 gauge S.S. Sheet, with 150mm high S.S. backsplash, backsplash to be fully closed with 16 gauge S.S. Sheet with proper welding, three sides closed body with 18 gauge thick S.S. sheets, under counter partially to have suitable angle rack with S.S. angles fixed on	no	2	33270.84	66541.68

	sides for sliding in GN pans or Baking Trays, balance of the portion shall have two under shelves provided with 1.1/2" x 1.1/2" S.S. Square pipe legs, provided with Ferro 2000 nylon adjustable feet.				
239	<p>WALL MOUNTED PIZZA OVEN (ELECTRICALLY OPERATED) - 850 X 600 X 425mm HT,EQP NO- PT-13</p> <p>CONSTRUCTION: Exterior of 18 gauge S.S.Sheet duly matt finished, interior of 20 gauge S.S, door provided with toughened glass window for viewing, with suitable S.S.infra red- heaters - 3 Nos. at the top and 3 Nos. at the bottom, for top and bottom, with separate electrical controls for top and bottom heating, with suitable thermostat, with wall fitting arrangement. The inner chamber shall be insulated using ceramic glass wool and provided with S.S. Infra-red Air heaters and provided with rotary on-off switch, suitable thermostat of "ZUMO" German make for regulating temperature, Teflon coated heat resisting 4 sq.mm. thick insulated wiring, approved brand of indicator lamps, etc. Baking chamber shall be provided with 1 no. removable 3/8" thick Mild Steel Plate at base (above the bottom set of heaters) & one no. S.S.wire rod shelf for baking. The Baking chamber shall also be provided with self closing spring loaded insulated shutter in front with a viewing glass (heat resistant - toughened glass.) For ease in using the Oven, the shutter shall be provided with a non-heat conducting handle. Controls for Oven having Temperature range of 0 - 300 deg. C shall be mounted on separate sunken panel on R.H. Side as required.</p>	no	1	48404.17	48404.17
240	WORK TABLE WITH STORAGE CABINET BELOW-1245 X 600 X 850 + 50mm HT,EQP NO- BA-01	no	1	45377.5	45377.5

	CONSTRUCTION: Top sunken made of 16 gauge S.S. Sheet, duly matt finished, all three sides closed body, sides and back of 18 gauge S.S. Sheet, framework of S.S. angle, with top provided with removable perforated tray, storage below provided with top hung sliding shutters with suitable locking arrangement, with 2 Nos.18 gauge S.S. under shelves, with 1.1/2" x 1.1/2" S.S. Square pipe legs, provided with Ferro 2000 nylon adjustable feet.				
241	ALL-IN-ONE COCKTAIL STATION WITH SINK -1150 X 600 X 850 + 50mm HT, EQP NO- BA-02 CONSTRUCTION: Top and ice bin made of 16 gauge S.S, duly matt finished, both sides and back made of 18 gauge and shall be provided with large S.S. bin on RHS for ice and duly insulated with PUF insulation, one perforated tray at the bottom with partitions for storage of ice cubes / flake ice / crushed ice, etc separately. Ice sink to be provided with top sliding shutters and a wash sink on LHS with a full length speed rail in the front, both sinks to be provided with heavy duty 1 1/2" dia. S.S. waste coupling, with 1.1/2" x 1.1/2" S.S. Square pipe legs with necessary 1" x 1" square pipe cross bracing on three sides, legs provided with Ferro 2000 nylon adjustable feet.	no	1	54079.17	54079.17
242	GLASS RACK CABINET WITH THREE DRAWERS-600 X 600 X 850 + 50mm HT,EQP NO- BA-03 CONSTRUCTION: Top sunken made of 16 gauge S.S.Sheet, duly matt finished, all three sides closed body, sides and back of 18 gauge S.S.Sheet, framework of S.S. angle, with top provided with removable perforated tray, unit shall have s.s.16 g thk sunken top provided with one S.S. perforated tray with drain below and three Nos.	no	1	37905.42	37905.42

	under counter drawers mounted on imported – ‘Hettich’ make, made in Germany, telescopic drawer slides, drawers to be made suitable for holding standard dish/ glass washer racks. unit shall be closed on three sides & provided with S.S. drip tray with with 1.1/2” x 1.1/2” S.S. Square pipe legs, provided with ferro 2000 nylon adjustable feet.				
243	WORK TABLE WITH GARBAGE CHUTE & PROVISION FOR KEEPING GARBAGE BIN BELOW-990 X 600 X 850 + 50mm HT EQP NO- BA-04 CONSTRUCTION: Top sunken to be made of 16 gauge S.S. Sheet, duly matt finished, all three sides closed body, sides and back of 18 gauge S.S. Sheet, framework of S.S. angle, with top provided with removable perforated tray, unit shall have s.s.16 g thk. sunken top provided with one S.S. perforated tray with drain below, with 1.1/2” x 1.1/2” S.S. Square pipe legs, provided with ferro 2000 nylon adjustable feet. Unit completely made out of S.S.to have work top and a garbage chute suitable for cutting & collecting bar wastes, garbage, etc. with suitable cut-out made on top and provided with chute down below, with provision for keeping garbage bin below.	no	1	27974.17	27974.17
244	GLASS RACK CABINET WITH THREE DRAWERS-600 X 600 X 850 + 50mm HT,EQP NO- BA-05 CONSTRUCTION: Top sunken made of 16 gauge S.S.Sheet, duly matt finished, all three sides closed body, sides and back of 18 gauge S.S.Sheet, framework of S.S.angle, with top provided with removable perforated tray, unit shall have s.s.16 g thk. sunken top provided with one S.S.perforated tray with drain below and three Nos. under counter drawers mounted on imported – ‘Hettich’ make, made in Germany,	no	1	37905.42	37905.42

	telescopic drawer slides, drawers to be made suitable for holding standard dish/ glass washer racks. Unit shall be closed on three sides & provided with S.S.drip tray with with 1.1/2" x 1.1/2" S.S.Square pipe legs, provided with ferro 2000 nylon adjustable feet.				
245	TWO SLIDING GLASS DOOR UNDERCOUNTER REFRIGERATOR WITH SUITABLE LIGHTING ARRANGEMENT IN FRIDGE COMPARTMENT-1425 X 600 X 850 + 50mm HT,EQP NO- BA-06 CONSTRUCTION: Top plain made of 16 gauge S.S. Sheet, duly matt finished, with three sides closed body, sides and back of 18 gauge S.S. Sheet, base framework of 1" x 1" S.S. Square pipes 304 grade, unit shall have two compartment refrigerator below provided with two insulated sliding glass shutters, provided with suitable lighting in each compartment and with suitable locking arrangement for the shutters, each compartment shall be provided with 2 Nos. plastic coated wire rod shelves, interior of tank to have rounded corners with static cooling system provided with copper coils maintaining temp. range of 2 to 6 deg. Centigrade, PUF insulation, sealed compressor unit of Emerson Copeland. Compressor on LHS, housing with S.S. louvered grills for ventilation and provided with sub-zero make digital temperature indicator, legs of 2" dia. S.S. pipes with nylon adjustable feet and S.S. removable drip tray for the drain provided in the centre of unit.	no	1	105721.67	105721.67
246	S.S FLOOR DRAIN BOX WITH S.S.GRATINGS AND STRAINER TRAY-970 X 350 X 100mm HT,EQP NO- DB-01 CONSTRUCTION: Drain Box Unit to be made out of one piece 304 grade S.S. of 16 G thickness	no	1	8773.75	8773.75

	having 4" deep bottom made like a trough and having radius corners for ease in cleaning. Top frame shall consist of standard floor gratings made out of ½" x ½" s.s square pipes placed at ½" c/c having both its ends closed by rectangular pipes of size 1" x ½" with S.S. removable perforated tray, bottom trough shall be provided with suitable drain outlet/Inlet of S.S. pipes with perforated strainer tray with suitable S.S. handles, strainer Tray and top S.S. Gratings shall be easily removable as required for cleaning.				
247	S.S FLOOR DRAIN BOX WITH S.S.GRATINGS AND STRAINER TRAY-350 X 350 X 100mm HT,EQP NO- DB-02 CONSTRUCTION: Drain Box Unit to be made out of one piece 304 grade S.S. of 16 G thickness having 4" deep bottom made like a trough and having radius corners for ease in cleaning. Top frame shall consist of standard floor gratings made out of ½" x ½" S.S square pipes placed at ½" c/c having both its ends closed by rectangular pipes of size 1" x ½" with S.S. removable perforated tray, bottom trough shall be provided with suitable drain outlet/Inlet of S.S. pipes with perforated strainer tray with suitable S.S. handles, strainer Tray and top S.S. Gratings shall be easily removable as required for cleaning.	no	1	4517.5	4517.5
II PLUMBING WORK					
PLUMBING WORK 17th FLOOR					
A Sanitary wares, Fixtures, Fittings and Accessories					
1	Providing, Fixing, Testing and Commissioning of Wall mounted Water closet with seat cover and accessories .Works includes cutting & making good the walls, holes, floors, slab wherever required. All consumable items	Nos	8	34,466.67	275,736.00

	such as brass screws, CP extension nipple of approved make, dia and length, wooden plugs, Teflon tape, sealant, gasket, cement solvent should be provided by vendor and it should be complete in full respect. Constellation with concealed ' S ' trap of CI chair brackets, fischer bolts with CP bolts / nuts as per technical specification. Model selection as per Architect. Make : TOTO CW762FVB/Jaquar/Hindware / OR Equivalent (Basic cost of Material 31,675/- no)				
2	Providing, Fixing, Testing and Commissioning of Concealed Flush cistern with cover plate complete and as directed by Engineer In charge. Make : JCS-WHT-2400WS / Jaquar/Hindware/OR Equivalent (Basic cost of Material 7,950/- no)	Nos	8	9,016.67	72,136.00
3	Providing, Fixing, Testing and Commissioning of Counter top Hand wash Basin. Works includes cutting & making good the walls, holes, floors, slab wherever required. All consumable items such as Teflon tape, sealant, gasket, cement solvent, Heavy CI brackets, nut bolts, washers etc. should be provided by vendor and it should be complete in full respect as per technical specification. Including UPVC drain pipe & specials, from bottle trap to floor trap including 32 to 50 mm pipe, reducers (75/50 or 40 mm), elbows, cleanouts, tees etc including making holes in RCC/Civil works, connecting to sleeves (where left) in floor etc complete. Make : TOTO /Jaquar/Hindware/ OR Equivalent				
i)	Toto Model No. LW1715B, size : 500w x 370d x 60h mm (Basic cost of Material 18,232/- no)	Nos	7	20,933.34	146,538.00
ii)	Toto Model No. LW819J, size : 746w x 448d x 173h mm (Basic	Nos	1	21,600.00	21,600.00

	cost of Material 18,337/- no)				
4	Providing, Fixing, Testing and Commissioning of Bottle trap single piece complete and as directed by Engineer In charge.. Make : Jaquar ALD-CHR-769L300 /Jaquar/Hindware/ OR Equivalent (Basic cost of Material 1300/- no)	Nos.	8	2,161.67	17,296.00
5	Providing, Fixing, Testing and Commissioning of 15 mm dia. two way bib cock with wall flange and ceramic disc cartridge complete , including cutting and making good the walls wherever required, making all necessary connections etc. All complete as per directions of the Engineer-in-charge. Make : Jaquar LYR-38041 / OR Equivalent (Basic cost of Material 1700/- no)	Nos.	8	2,763.40	22,112.00
6	Providing, Fixing, Testing and Commissioning of 15 mm dia. bib cock with wall flange and ceramic disc cartridge complete , including cutting and making good the walls wherever required, making all necessary connections etc. All complete as per directions of the Engineer-in-charge. Make : Hindware F360004CP / OR Equivalent (Basic cost of Material 1500/- no)	Nos.	8	1,960.00	15,680.00
7	Providing, Fixing, Testing and Commissioning of Health Faucet with 1200 mm Long CP Braided Hoses including connectors, adapters, GI nuts, bolts, washers, check nuts, C.P. brass two in one bib tap including necessary sleeve flanges, cock , angle valves and all other fittings/ accessories required for satisfactory installation complete. Make : Grohe Tempesta -F-Trigger Spray 30-27513001 / OR Equivalent (Basic cost of Material 2000/- no)	Nos.	8	2,417.00	19,336.00
8	Providing, Fixing, Testing and Commissioning of C.P. brass angle valve with 15 mm nominal bore of approved quality	Nos.	16	1,450.00	23,200.00

	complete and as directed by Engineer In charge. Make : Jaquar OPP-CHR-15053PM / OR Equivalent (Basic cost of Material 1000/- no)				
9	Providing, Fixing, Testing and Commissioning of Kitchen Sink with Double Single bowl type with necessary fittings, couplings, complete in full respect with gaskets, making it leak proof & cutting and making good the walls wherever required: complete and as directed by Engineer In charge. (Make : Nirali) Silent Square-Luxor Big / OR Equivalent (Basic cost of Material 14000/- no)	Nos	1	15,400.00	15,400.00
10	Providing, Fixing, Testing and Commissioning of Pantry Tap. Make : Jaquar KUB-CHR-35021F / OR Equivalent (Basic cost of Material 2,550/- no)	Nos	2	2,960.00	5,920.00
11	Providing, Fixing, Testing and Commissioning of shower rose with 15 or 20 mm inlet: Make : Jaquar OHS-CHR-1605 / OR Equivalent (Basic cost of Material 4,150/- no)	Nos	7	5,033.34	35,238.00
12	Providing, Fixing, Testing and Commissioning of bath shower mixer with 15 or 20 mm inlet: Make : Jaquar FLR-CHR-5657/ KUB-CHR-35143F / OR Equivalent (Basic cost of Material 7900/- no)	Nos	7	8,975.00	62,825.00
13	Providing, Fixing, Testing and Commissioning of bathroom spout with 15 or 20 mm inlet: Make : Jaquar SPJ-CHR-5429 / OR Equivalent (Basic cost of Material 1000/-no)	Nos	7	1,450.00	10,150.00
14	Providing & Fixing of Towel Holder Ring Make : Jaquar AKP-35721 / OR Equivalent (Basic cost of Material 1600/- no)	Nos	7	2,061.67	14,434.00
15	Providing & Fixing of Toilet Roll Holder Make : Jaquar AKB - 35753 / OR Equivalent (Basic cost of Material 1375/- no)	Nos	7	1,958.34	13,713.00
16	Providing & Fixing of Soap Holder Make : Jaquar ACN-CHR - 1131N / OR Equivalent (Basic	Nos	14	928.34	13,006.00

	cost of Material 525/- no)				
17	Providing & Fixing of Soap dispenser Make : Jaquar ACN-CHR-1137N / OR Equivalent (Basic cost of Material 2450/- no)	Nos	8	2,858.34	22,872.00
18	Providing & Fixing of Towel rail Make : Jaquar AKP-CHR-35711P / OR Equivalent (Basic cost of Material 2100/- no)	Nos	7	2,533.34	17,738.00
19	Providing, Installation, Testing, Commissioning of Instant water heater with 3 lit capacity including the following a) C.P. Connectors b) Angular stop cock with wall flange c) All accessories required to complete the installation. (Make : Bajaj/Racold/Ao Smith) / OR Equivalent (Basic cost of Material 4200/- no)	Nos	7	5,033.34	35,238.00
B	Soil And Waste Pipes				
	Building Internal Drainage System				
20	Supplying, Fixing and Testing UPVC soil, waste and vent pipes (SWR) confirming to IS: 13592, joint inclusive of all necessary specials like bends, tees, offsets, door bends, junctions, cowls, etc., laid under floor/ fixed on walls, hung under the ceiling, and in pipe shafts, etc., complete. The quoted rate should include lead and lifting charges to all levels, necessary scaffolding and supports like hanger supports, grip bolts and clamps and making good the openings, etc. The rate should include supplying and fixing GI slotted angle iron brackets, hangers, supports with necessary drilling holes to suit the insertion of pipe clamps, deburring etc., as per detailed drawing for supporting soil, waste and rain water pipes and water supply pipes in shafts with suitable fabricated GI clamps, GI bolts, GI anchor bolts, GI nuts and GI washers fixed on shaft walls outer walls, brick work/ concrete supports, etc. The quoted rate shall				

	include the cost of brackets galvanized with zinc alloy of 0.08 mm thick conforming to IS: 1239, etc. complete. The Rate shall also be inclusive of 2 coats of painting synthetic enamel paint of approved colour over one coat of primer and pipe identification labels and technical specification.(Make : Prince/Supreme/Astral)				
i)	32mm dia	RM	18	290.00	5,220.00
ii)	75 mm dia.	RM	12	691.67	8,300.04
iii)	110 mm dia.	RM	15	1,238.34	18,575.10
21	Providing, Fixing, Testing and Commissioning of PVC NAHNI TRAPS of size 110x75mm with water seal along with cover including making holes in RCC /masonry work, including if, required extension pipe, Fixing NT to correct level & line. Providing MS (epoxy coated) clamps etc complete. Fixing of grating circular type in SS .Quoted rate shall include necessary Boss Connector for waste Pipe connections from wash and Kitchen Areas etc., Complete (Make: Prince/Supreme/Astral) Or Equivalent (Basic cost of material 119/-no)	Nos	18	600.00	10,800.00
22	Providing, Fixing, Testing and Commissioning of Multi PVC NAHNI TRAPS of size 110x75mm with water seal along with cover including making holes in RCC /masonry work, including if, required extension pipe, Fixing NT to correct level & line. Providing MS (epoxy coated) clamps etc complete. Fixing of grating circular type in SS .Quoted rate shall include necessary Boss Connector for waste Pipe connections from wash and Kitchen Areas etc., Complete (Make: Prince/Supreme/Astral) Or Equivalent (Basic cost of material 176/- no)	Nos	7	775.00	5,425.00
23	Supplying, Fixing and Testing of Shower Drain channel made of SS 304 of width of 70mm Make:	RM	1	9,366.67	9,366.67

	Nugreen Or equivalent (Basic cost of material 7500/- Rmt)				
C	BUILDING INTERNAL WATER SUPPLY SYSTEM				
24	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 wall etc				
i)	15 mm nominal outer dia pipes	RM	30	340.91	10,227.30
ii)	20 mm nominal outer dia pipes	RM	50	394.43	19,721.50
25	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
i)	25 mm nominal bore	Nos	8	592.93	4,743.44
26	Providing and fixing brass stop cock of approved quality				
i)	20 mm nominal bore	Nos	8	388.27	3,106.16
27	Supply, installation, testing and commissioning of Booster pump (pressurization pump) comprising of Horizontal mono-block of 0.5Hp pump, suitable for operation on 240 volts \pm 6%, 1 phase, 50 HZ A.C supply. The installation shall be complete with Flexible coupling and coupling guard, complete as required.(Make : Kirloskar/Crompton/Aquasub)	Nos	7	5,083.34	35,583.38
	PLUMBING WORK 18th FLOOR				
A	Sanitary wares, Fixtures, Fittings and Accessories				
1	Providing, Fixing, Testing and Commissioning of Wall mounted Water closet with seat cover and accessories .Works includes cutting & making good the walls, holes, floors, slab wherever required. All consumable items such as brass screws, CP extension nipple of approved	Nos	5	34,466.67	172,335.00

	make, dia and length, wooden plugs, Teflon tape, sealant, gasket, cement solvent should be provided by vendor and it should be complete in full respect. Constellation with concealed ' S ' trap of CI chair brackets, fischer bolts with CP bolts / nuts as per technical specification. Model selection as per Architect. Make : TOTO CW762FVB Jaquar/Hindware/ OR Equivalent (Basic cost of Material 31,675/- No)				
2	Providing, Fixing, Testing and Commissioning of Concealed Flush cistern with cover plate complete and as directed by Engineer In charge. Make : JCS-WHT-2400WS Jaquar/Hindware/ OR Equivalent (Basic cost of Material 7950/- no)	Nos	5	9,016.67	45,085.00
3	Providing, Fixing, Testing and Commissioning of Counter top Hand wash Basin. Works includes cutting & making good the walls, holes, floors, slab wherever required. All consumable items such as Teflon tape, sealant, gasket, cement solvent, Heavy CI brackets, nut bolts, washers etc. should be provided by vendor and it should be complete in full respect as per technical specification. Including UPVC drain pipe & specials, from bottle trap to floor trap including 32 to 50 mm pipe, reducers (75/50 or 40 mm), elbows, cleanouts, tees etc including making holes in RCC/Civil works, connecting to sleeves (where left) in floor etc complete. Make : TOTO /Jaquar/Hindware/ OR Equivalent				
i)	Toto Model No. LW1715B, size : 500w x 370d x 60h mm (Basic cost of Material 18,232/- no)	Nos	4	20,933.34	83,736.00
ii)	Toto Model No. LW819J, size : 746w x 448d x 173h mm (Basic cost of Material 18,337/- no)	Nos	1	21,600.00	21,600.00
4	Providing, Fixing, Testing and	Nos.	5	2,161.67	10,810.00

	Commissioning of Bottle trap single piece complete and as directed by Engineer In charge.. Make : Jaquar ALD-CHR-769L300 / OR Equivalent (Basic cost of Material 1300/- no)				
5	Providing, Fixing, Testing and Commissioning of 15 mm dia. two way bib cock with wall flange and ceramic disc cartridge complete , including cutting and making good the walls wherever required, making all necessary connections etc. All complete as per directions of the Engineer-in-charge. Make : Jaquar LYR-38041 / OR Equivalent (Basic cost of Material 1700/- no)	Nos.	5	2,763.40	13,820.00
6	Providing, Fixing, Testing and Commissioning of 15 mm dia. bib cock with wall flange and ceramic disc cartridge complete , including cutting and making good the walls wherever required, making all necessary connections etc. All complete as per directions of the Engineer-in-charge. Make : Hindware F360004CP / OR Equivalent (Basic cost of Material 1500/- no)	Nos.	5	1,960.00	9,800.00
7	Providing, Fixing, Testing and Commissioning of Health Faucet with 1200 mm Long CP Braided Hoses including connectors, adapters, GI nuts, bolts, washers, check nuts, C.P. brass two in one bib tap including necessary sleeve flanges, cock , angle valves and all other fittings/ accessories required for satisfactory installation complete. Make : Grohe Tempesta-F-Trigger Spray 30-27513001 / OR Equivalent (Basic cost of Material 2000/- no)	Nos.	5	2,417.00	12,085.00
8	Providing, Fixing, Testing and Commissioning of C.P. brass angle valve with 15 mm nominal bore of approved quality complete and as directed by Engineer In charge. Make : Jaquar OPP-CHR-15053PM /	Nos.	10	1,450.00	14,500.00

	OR Equivalent (Basic cost of Material 1000/- no)				
9	Providing, Fixing, Testing and Commissioning of Kitchen Sink with Double bowl type with necessary fittings, couplings, complete in full respect with gaskets, making it leak proof & cutting and making good the walls wherever required: complete and as directed by Engineer In charge. (Make : Nirali) Silent Square-Luxor Big / OR Equivalent (Basic cost of Material 14000/- no)	Nos	1	15,400.00	15,400.00
i)	With single Bowl Type (Make : Nirali) / OR Equivalent (Basic cost of Material 7500/- no)	Nos	6	10,333.34	62,004.00
10	Providing, Fixing, Testing and Commissioning of Pantry Tap. Make : Jaquar KUB-CHR-35021F / OR Equivalent (Basic cost of Material 2550/- no)	Nos	7	2,960.00	20,720.00
11	Providing, Fixing, Testing and Commissioning of shower rose with 15 or 20 mm inlet: Make : Jaquar OHS-CHR-1605 / OR Equivalent (Basic cost of Material 4150/-no)	Nos	2	5,033.34	10,068.00
12	Providing, Fixing, Testing and Commissioning of bath shower mixer with 15 or 20 mm inlet: Make : Jaquar FLR-CHR-5657/ KUB-CHR-35143F / OR Equivalent (Basic cost of Material 7900/- no)	Nos	2	8,975.00	17,950.00
13	Providing, Fixing, Testing and Commissioning of bathroom spout with 15 or 20 mm inlet: Make : Jaquar SPJ-CHR-5429) / OR Equivalent (Basic cost of Material 1000/- no)	Nos	2	1,450.00	2,900.00
14	Providing & Fixing of Towel Holder Ring Make : Jaquar AKB-35721 / OR Equivalent (Basic cost of Material 1600/- no)	Nos	2	2,061.67	4,124.00
15	Providing & Fixing of Toilet Roll Holder Make : Jaquar AKB - 35753 / OR Equivalent (Basic cost of Material 1350/- no)	Nos	2	1,958.34	3,918.00
16	Providing & Fixing of Soap Holder Make : Jaquar ACN-CHR - 1131N / OR Equivalent (Basic cost of Material 525/- no)	Nos	6	928.34	5,574.00

17	Providing & Fixing of Soap dispenser Make : Jaquar ACN-CHR-1137N / OR Equivalent (Basic cost of Material 2450/-no)	Nos	5	2,858.34	14,295.00
18	Providing & Fixing of Towel rail Make : Jaquar AKP-CHR-35711P / OR Equivalent (Basic cost of Material 2100/- no)	Nos	2	2,533.34	5,068.00
19	Providing, Installation, Testing, Commissioning of Instant water heater with 3 lit capacity including the following a) C.P. Connectors b) Angular stop cock with wall flange c) All accessories required to complete the installation. (Make : Bajaj/Racold/Ao Smith) / OR Equivalent (Basic cost of Material 4200/-no)	Nos	2	5,033.34	10,068.00
B	Soil And Waste Pipes				
	Building Internal Drainage System				
20	Supplying, Fixing and Testing UPVC soil, waste and vent pipes (SWR) conforming to IS: 13592, joint inclusive of all necessary specials like bends, tees, offsets, door bends, junctions, cowls, etc., laid under floor/ fixed on walls, hung under the ceiling, and in pipe shafts, etc., complete. The quoted rate should include lead and lifting charges to all levels, necessary scaffolding and supports like hanger supports, grip bolts and clamps and making good the openings, etc. The rate should include supplying and fixing GI slotted angle iron brackets, hangers, supports with necessary drilling holes to suit the insertion of pipe clamps, deburring etc., as per detailed drawing for supporting soil, waste and rain water pipes and water supply pipes in shafts with suitable fabricated GI clamps, GI bolts, GI anchor bolts, GI nuts and GI washers fixed on shaft walls outer walls, brick work/ concrete supports, etc. The quoted rate shall include the cost of brackets galvanised with zinc alloy of 0.08				

	mm thick conforming to IS: 1239, etc. complete. The Rate shall also be inclusive of 2 coats of painting synthetic enamel paint of approved colour over one coat of primer and pipe identification labels and technical specification. (Make : Prince/Supreme/Astral)				
i)	40mm dia	RM	13	300.00	3,900.00
ii)	50mm dia	RM	2	388.34	778.00
iii)	75 mm dia.	RM	5	691.67	3,460.00
iv)	110 mm dia.	RM	6	1,238.34	7,434.00
21	Providing, Fixing, Testing and Commissioning of PVC NAHNI TRAPS of size 110x75mm with water seal along with cover including making holes in RCC /masonry work, including if, required extension pipe, Fixing NT to correct level & line. Providing MS (epoxy coated) clamps etc complete. Fixing of grating circular type in SS .Quoted rate shall include necessary Boss Connector for waste Pipe connections from wash and Kitchen Areas etc., Complete (Make: Prince/Supreme/Astral) Or Equivalent (Basic cost of material 119/- no)	Nos	22	600.00	13,200.00
22	Providing, Fixing, Testing and Commissioning of Multi PVC NAHNI TRAPS of size 110x75mm with water seal along with cover including making holes in RCC /masonry work, including if, required extension pipe, Fixing NT to correct level & line. Providing MS (epoxy coated) clamps etc complete. Fixing of grating circular type in SS .Quoted rate shall include necessary Boss Connector for waste Pipe connections from wash and Kitchen Areas etc., Complete (Make: Prince/Supreme/Astral) Or Equivalent (Basic cost of material 176/- no)	Nos	5	775.00	3,875.00
23	Supplying, Fixing and Testing of Shower Drain channel made of SS 304 of width of 70mm Make: Nugreen Or equivalent (Basic	RM	1	9,366.67	9,367.00

	cost of material 7500/-Rmt)				
C	BUILDING INTERNAL WATER SUPPLY SYSTEM				
24	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 wall etc.				
i)	15 mm nominal outer dia pipes	RM	50	340.91	17,050.00
ii)	20 mm nominal outer dia pipes	RM	74	394.43	29,111.50
25	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
i)	25 mm nominal bore	Nos	4	592.92	2,372.00
26	Providing and fixing brass stop cock of approved quality				
i)	20 mm nominal bore	Nos	8	388.27	3,112.00
27	Supply, installation, testing and commissioning of Booster pump (pressurization pump) comprising of Horizontal mono-block of 0.5Hp pump, suitable for operation on 240 volts \pm 6%, 1 phase, 50 HZ A.C supply. The installation shall be complete with Flexible coupling and coupling guard, complete as required. (Make : Kirloskar/Crompton/Aquasub)	Nos	5	5,083.34	25,420.00
III	ELECTRICAL WORK				
A	Electrical Work 17th Floor				
1	POINT WIRING				
1.1.1	Point wiring for light/fan/bell concealed type in min 20 mm PVC conduit with 1.5 sq.mm. FR grade copper wires with modular type switch and required accessories as per specification No: WG-PW/CW	Points	185	664.58	122947.30
1.1.2	Supplying & erecting mains with 2x2.5 sq.mm F.R.L.S copper PVC insulated wire	Metre	400	55.3	22120.00

	laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW				
1.1.3	Supplying & erecting mains with 2x4 sq.mm F.R.L.S copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW	Metre	400	78.85	31540.00
1.1.4	Supplying and erecting UPVC reinforced flexible conduit 20 mm in dia. conforming to I.S. and approved make with required number of couplings, PVC bushes, check nuts etc. complete.	Metre	100	80.9	8090.00
1.1.5	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 20 mm with accessories on wall/ceiling as per specification No:	Metre	100	33.79	3379.00
1.1.6	Supplying & erecting I.S.I. mark Rigid P.V.C. conduit 25 mm. dia. with necessary accessories in wall/floor with chiseling appropriately as per specification No: WG-MA/CC, para no. 1.2.1	Metre	250	110.59	27647.50
2	LIGHT FIXTURES & FAN FITTINGS(PHILIPS/BAJAJ)				
2.1.1	Supplying and erecting regular/ standard model Ceiling fan of 1200 mm. sweep complete erected in position as per specification no. FG	Nos	10	1837.06	18370.60
2.1.2	Supplying and erecting fresh air cum Exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner and marking Sr. No. an date of erection.(Toilets)	Nos	8	1375.23	11001.84
2.1.3	Supplying and erecting Exhaust fan heavy duty 230 V A.C. 50 cycles 375/380 mm. 1400 RPM complete erected in position as per speciflcation no. FG-	Nos	2	3577.86	7155.72

	FN/EXF(Pantry Area)				
2.1.4	Supplying, Installation, testing and commissioning T5 LED Tube light 16 W, 230V.	Nos	3	916.67	2750.01
2.1.5	Supplying, Installation, testing and commissioning Surface mounted Ligth 8 W, 230V.	Nos	8	1885	15080.00
2.1.6	Supplying, Installation, testing and commissioning LED Bracket Light of 8 W, 230V.	Nos	14	1701.67	23823.38
2.1.7	Supplying, Installation, testing and commissioning LED Mirror Light of 5 to 8 W, 230V Integral type	Nos	8	2216.67	17733.36
2.1.8	Supplying LED concealed type foot / step light with aluminium body for indoor application suitable for up to 2 W LED including driver and erecting by making necessary arrangement/recess in wall to make it flush with surface.	Nos	9	799.44	7194.96
2.1.9	Supplying, Installation, testing and commissioning LED Wardrob rail light with PIR motion sensor.	Nos	7	4133.33	28933.31
2.1.10	Supplying, Installation, testing and commissioning 8W LED wall light(Balcony Light)(IP54)	Nos	11	2350	25850.00
2.1.10	Supplying, Installation, testing and commissioning 8W LED wall light	Nos	5	2150	10750.00
2.1.8	Supplying, Installation, testing and commissioning 40 W Chandelier Bulb with dimmer	Nos	4	4833.33	19333.32
2.1.9	Supplying, Installation, testing and commissioning 40 W Surface hanging Light	Nos	3	5916.67	17750.01
2.1.10	Supplying and erecting LED flexible strip light 5m length up to 25W conforming IP 65 of any colour with driver complete.	Mtr	140	2661.5	372610.00
2.1.10	Supplying and erecting LED square / circular 16 to 20W downlighter having pressure die-cast aluminium housing, opal translucent cover, mounting arrangement	Nos	93	1835.12	170666.16

	with board for surface type or spring loaded mounting clips for flush type complete.				
3	SWITCHGEAR : DISTRIBUTION BOARDS				
3.1	LT - MCB's (SW-MCB)(LEGRAND)				
3.1.1	Supplying, erecting & marking TPMCB 40A to 63A in provided distribution board as per specification No. SW-SWR/MCB	Nos	4	1055.74	4222.96
3.2	LT - MCBDB's (SW-MCBDB)				
3.2.1	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SP / TP MCBs 24 Poles on iron frame/wooden board. (Vertical Busbar type) as per specification No. SW-SWR/MCBDB(Children's Party Area)	Nos	1	6660.1	6660.10
3.2.2	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SP / TP MCBs of total 36 ways on iron frame/wooden board. (Vertical Busbar type) as per specification No. SW-SWR/MCBDB	Nos	3	7970.82	23912.46
3.2.3	Supplying, erecting & marking SPMCB 6A to 32A, B- series (for lighting) in provided distribution board as per specification No. SW-SWR/MCB	Nos	25	165.89	4147.25
3.2.4	Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification No. SW-SWR/MCB	Nos	77	177.15	13640.55
3.3	LT - MCCB's (SW-MCCB)				
3.3.2	Supply, installation, Testing & Commissioning of wall mounted double door TPN MCCB enclosure with 250A MCCB of 415 V capacity with S.C. rating 36 kA (Ics=100% of Icu) with appropriate space for 240 Sq mm Cable & termination complete in all	Nos	1	38991.67	38991.67

	respects as per technical specifications.				
3.3.1	Supplying & laying (including excavation) 25 cm Dia half round RCC Hume pipe of standard thickness at required depth up to 90 cms. below road / ground surface, for enclosing provided cable & necessary back filling with light ramming to make the road/ground surface as it was (Except bitumen carpet).	Mtr	100	590.85	59085.00
3.4	RCCB (SW-RCCB)				
3.4.1	Providing, erecting & commissioning RCCB only of electromagnetic type with 30/100/300 mA sensitivity and having capacity of 16/25 A. 2 pole complete as per specification No. SW-RCCB/RCCB	Nos	3	2166.78	6500.34
3.4.2	Providing, erecting & commissioning RCCB only of electromagnetic type with 30/100/300 mA sensitivity and having capacity of 40 A. 2 pole complete as per specification No. SWRCCB/RCCB	Nos	9	2252.8	20275.20
3.6	Modular switches and Accessories				
3.6.1	Supplying and erecting modular type telephone socket one gang with safety shutter ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	10	82.94	829.40
3.6.2	Supplying and erecting modular type blanking plate one module ISI mark approved make duly erected on provided plate & box	Nos	104	23.55	2449.20
3.6.3	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 1 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved	Nos	2	198.66	397.32

	manner.				
3.6.4	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 2 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved manner.	Nos	58	198.66	11522.28
3.6.5	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 3 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved manner.	Nos	22	230.4	5068.80
3.6.6	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 4 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved manner.	Nos	2	261.12	522.24
3.6.7	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 6 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved manner.	Nos	4	354.3	1417.20
3.6.8	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 8 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved manner.	Nos	9	421.89	3797.01

3.6.9	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 12 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved manner.	Nos	31	476.16	14760.96
3.6.10	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 16 / 18 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved manner.	Nos	11	523.26	5755.86
3.6.11	Supplying and erecting modular type switch 6A / 10A ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	99	88.06	8717.94
3.6.12	Supplying and erecting modular type switch 16A ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	41	124.93	5122.13
3.6.13	Supplying and erecting modular type electronic step regulator for fan two module ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	10	407.55	4075.50
3.6.14	Supplying and erecting modular type 3 pin 6A multi socket with safety shutter ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	124	102.4	12697.60
3.6.15	Supplying and erecting modular type 3 pin 6 / 16A multi socket with safety shutter ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	66	160.77	10610.82

3.6.16	Supplying and erecting modular type D.P. switch 32A with indicator ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	7	191.49	1340.43
3.6.17	Supplying and erecting modular type 32A, DP key tag switch with KEY TAG ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	7	345.09	2415.63
3.7	Supplying and erecting storage / pressure type Horizontal / vertical water heater 25 Liters of mild steel body, on wall / loft as per specification No. AP-WH/STWH	Nos	7	8848.38	61938.66
4	HT/LT CABLES				
4.1	SITC of following sizes of 1.1 KV grade PVC insulated Armored Copper/ Aluminum conductor cables laid over MS supports cable racks/trays or fixing on walls including clamping the cable to supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as required. For more details read technical spec no. 8 & refer PWD 2013-2014				
4.1.1	Supplying, erecting & terminating PVC armored cable 3½core 240 sq mm aluminium conductor with continuous 12.97 sq mm (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL(HVAC Panel) As per location	Metre	180	1370.11	246619.80
4.1.2	Supplying, erecting & terminating PVC armoured cable 4 core 6 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire	Metre	100	409.6	40960.00

	complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU(LPDB1)				
4.1.3	Supplying, erecting & terminating PVC armoured cable 4 core 10 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU(For LPDB2 ,3 , 4 & Outdoor Unit 1 & 2)	Metre	400	624.64	249856.00
4.1.4	Supplying, erecting & terminating PVC armoured cable 3½ core 50 sq mm aluminium conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL(Standby Unit 1 & 2)	Metre	60	365.57	21934.20
5	LT PANELS (legrand TPN MCCB with Encloser)				
5.1	SITC of following outdoor type panels with double door, as per specifications and SLD complete with all necessary accessories.				
5.1.1	Main HVAC panel(LEGRAND)(IP 65)	Nos	1	105008	105008.00
	a. Incomer : 250A,TPN MCCB,35kA				
	b. Busbar : 250A, TPN, Aluminum, 35kA				
	c. Outgoings :				
	63A,TPN, MCB - 2 Nos. (For outdoor Unit 1 &2)				
	100A,TPN, MCCB - 2 Nos. (For Standby unit 1 & 2)				
6	EARTHING				
6.1	Earthing Accessories				
6.1.1	Supplying and erecting G.I. strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous	Kg	40	161.79	6471.60

	paint in an approved manner with joint required. as per specification No (EA-EP).				
6.1.2	Supplying and erecting G. I. Earth Wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/ conduit with screws in an approved manner.	Kg	50	155.65	7782.50
	Note: Strip will be connected to Existing Earth pit of the Buildings.				
7	TELEPHONE				
7.1	Supplying & erecting telephone cable 10 pair with 0.5 mm dia. laid in provided PVC casing / conduit as per specification No. WG-TW	Metre	40	60.42	2416.80
7.2	Supplying & erecting telephone cable 2 pair with 0.5 mm dia. laid in provided PVC casing / conduit as per specification No. WG-TW	Metre	200	19.46	3892.00
7.3	Supplying, erecting & commissioning Junction box suitable for 10 pairs as per specification No. WG-TW	Nos.	1	590.85	590.85
7.4	Supplying & erecting Rosette box RJ type Bakelite box on wall with LED indication duly connected as per specification No. WG-TW	Nos.	10	100.35	1003.50
8	INVERTER & BATTERIES				
8.1	Supplying, installing, testing & commissioning of 1400 VA Digital pure sine wave inverter based on IGBT technology single phase 230V,50 Hz complete as per specification no. AP-INV (Without batteries)	Nos.	1	12234.75	12234.75
8.2	Supplying and erecting 12 V/135AH TUBULAR Battery with battery terminal wire, duly charged complete with 36 months warranty complete	Nos.	1	15309.82	15309.82
8.3	Supply & installation of Battery RACK For 4 Units Of 200AH/12V Tall Tubular Batteries	Nos.	1	9383.33	9383.33
	ULTRASONIC RAT &				

	RODENT REPELLENT SYSTEM				
9	Supplying, Installation, testing and commissioning Ultrasonic Rat & Rodent Repellent Systems (1 Master console + Drive Up to 1 Transducers)	Nos.	1	40230	40230.00
9.1	Supplying & erecting mains with 2x1.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW	Metre	30	36.86	1105.80
	WIRELESS CALL BELL SYSTEM				
9.2	Supplying, Installation, testing and commissioning Wireless Call bell System(1 Receiver + 10 Remote Transmitter)	Nos.	1	41333.33	41333.33
	CABLE TRAY (CB-CT)				
9.3	Providing & erecting Hot deeped Galvanized cover suitable for perforated type Cable tray manufactured from 18 swg (1.2 mm thick) GI sheet of 200 mm width & 15 mm height complete with necessary hardware in approved manner.	Meter	100	296.96	29696.00
10	REMOVING & TAKING IT AWAY OF ELECTRICAL ACCESSORIES				
9.1	Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW	Nos.	35	6.14	214.90
9.2	Dismantling the existing Aluminium/copper mains, sub-mains wiring up to 10 sq.mm. along with accessories etc. Complete as per specification No: WG-DM/PW	Meter	50	2.05	102.50
9.3	Dismantling of existing fluorescent fittings of any	Nos.	15	10.24	153.60

	type & size.				
9.4	Dismantling the existing ceiling fan/exhaust fan/cabin fan/bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear.	Nos.	10	24.58	245.80
9.5	Dismantling the existing switchgears, DB, and Bus bar of any size complete with/ without board or angle iron frame Each	Nos.	3	60.42	181.26
9.6	Making the site clear of dismantled DB and switch gears by refilling the holes with cement mortar & finishing in an approved manner.	Nos.	3	46.08	138.24
9.7	Dismantling the existing cables of all types & size up to 10 sq mm.	Meter	30	10.24	307.20
9.8	Dismantling the existing cables of all types & size above 10 sq mm up to 50 sq.mm.	Meter	30	15.36	460.80
9.9	Dismantling the existing cables of all types & size above 50 sq mm.	Meter	30	20.48	614.40
10	Refilling the holes for dismantled cables with cement mortar & finishing in an approved manner etc. complete	Meter	50	35.84	1792.00
10.1	Dismantling the existing underground cable without damaging it with glands, cable end box including refilling the trench up to ground level and making coils	Meter	50	24.58	1229.00
2	Fire detection system				
1.1	Fire Panel				
	S/I/T/C of UL approved 32 bit microprocessor based TCP/IP networkable, Intelligent Addressable Fire Alarm Control panel with 1 Loop with battery backup for minimum 48 hours. The panel shall be networkable & expandable without changing the cabinet. The panel should be modular, decentralized. The panel shall consisting with minimum 240 character	Nos	1	147306.67	147306.67

	LCD display. Panel Should have onboard 16 relay output for integration with other system like PA, Access control etc. Panel should be able to record events history. Each loop should be capable to have at least 99 elements / devices.(One loop is spare) (Location:- Basement 1 LV room). The FACP shall also be provided with a dedicated standby power supply system (battery and charger .The FACP shall have network driver cards to integrate with repeater panel . The FACP shall consists of following other components. Auto dialing system shall be provided to indicating fire.				
1.1.1	1 Loop Panel				
1.1.2	Bacnet card to integrate with third party systems.				
1.2	Detectors				
1.2.1	Supply, Installation, Testing and commissioning of Vds approved Soft Addressable type intelligent multicriteria detector with base for use as smoke detector combined both with automatic electronic addressing, microprocessor type and must have integrated short circuit isolator (in case short circuit isolator is not inbuilt, the price of this item shall be inclusive of an independent short-circuit isolator along with each detector). The detector shall have IP 44 protection category & ambient temperature -25°C to + 60°C. The quoted item shall completely comply to the technical specification and required accessories including JB & glands	Nos	17	4250	72250.00
1.2.2	Supply, Installation, Testing and commissioning of Vds approved Soft Addressable type intelligent multicriteria detector with base for use as heat detector with automatic	Nos	1	4550	4550.00

	electronic addressing, microprocessor type and must have integrated short circuit isolator (in case short circuit isolator is not inbuilt, the price of this item shall be inclusive of an independent short-circuit isolator along with each detector). The detector shall have IP 44 protection category & ambient temperature -25°C to + 60°C. The quoted item shall completely comply to the technical specification and required accessories including JB & glands.				
1.3	Supply, Installation, Testing and commissioning of multi tone sounder cum flasher with 32 selectable tone shall have 99 db output @ 1m , with necessary interfacing module having inbuilt fault isolator with IP 66 Box and required accessories including JB & glands	Nos	3	5750	17250.00
1.4	Supply, Installation testing & commissioning of Addressable Manual call points. The same shall be of ABS plastic, square in shape and 4 "x 4" in size. It shall have a "Break glass" message embedded on the glass.	Nos	2	6166.67	12333.34
1.5	Cabling				
1.5.1	Supply, laying, testing & commissioning of 2c x 1.5Sq.mm Cu. FRLS Armoured cable	Mtr.	200	129.33	25866.00
3	Public Address System				
1	Supply, installation, Testing, & commissioning of Public Address. Audio amplifier including all necessary control desk, microprocessor based control unit with microphone, BGM, call station and PC inputs including providing necessary rack for mounting the amplifier having Battery backup provisions shall be implemented; the battery voltage shall be 24Vdc, +20%				

	/ -10%. and all complete with cable terminations, wiring & conducting with necessary accessories as per Technical Specifications & approval of Client /PMC/ Consultant as below				
1.1	4 Zone Selector console with controller & Music Player	Nos.	1	168935	168935.00
1.2	6 Watt Recessed Type Ceiling Mount speakers.	Nos.	16	1350	21600.00
1.3	Booster Amplifier - 100 W for Single Channel Operation	Nos.	1	20166.67	20166.67
1.4	Call Station	Nos.	1	15916.67	15916.67
2	Supply & Installation of wiring & conducting for above system with all necessary accessories such as bends, sockets, junction boxes etc. as below:				
2.1	Supply, laying, testing & commissioning of 2c x 1.5Sq.mm Cu. FRLS Armoured cable	Mtr.	110	130.33	14336.30
B	Electrical Work 18th Floor				
1	POINT WIRING				
1.1.1	Point wiring for light/fan/bell concealed type in min 20 mm PVC conduit with 1.5 sq.mm. FR grade copper wires with modular type switch and required accessories as per specification No: WG-PW/CW	Points	103	664.58	68451.74
1.1.2	Supplying & erecting mains with 2x2.5 sq.mm F.R.L.S copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW	Metre	400	55.3	22120.00
1.1.3	Supplying & erecting mains with 2x4 sq.mm F.R.L.S copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW	Metre	400	78.85	31540.00
1.1.4	Supplying and erecting UPVC reinforced flexible conduit 20 mm in dia. conforming to I.S. and approved make with required number of couplings, PVC bushes,	Metre	100	80.9	8090.00

	check nuts etc. complete.				
1.1.5	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 20 mm with accessories on wall/ceiling as per specification No:	Metre	100	33.79	3379.00
1.1.6	Supplying & erecting I.S.I. mark Rigid P.V.C. conduit 25 mm. dia. with necessary accessories in wall/floor with chiseling appropriately as per specification No: WG-MA/CC, para no. 1.2.1	Metre	200	110.59	22118.00
2	LIGHT FIXTURES & FAN FITTINGS(PHILIPS/BAJAJ)				
2.1.1	Supplying and erecting regular/ standard model Ceiling fan of 1200 mm. sweep complete erected in position as per specification no. FG	Nos	2	1837.06	3674.12
2.1.2	Supplying and erecting fresh air cum Exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner and marking Sr. No. an date of erection.(Toilet Area)	Nos	4	1375.23	5500.92
2.1.3	Supplying and erecting Exhaust fan heavy duty 230 V A.C. 50 cycles 375/380 mm. 1400 RPM complete erected in position as per specification no. FG-FN/EXF(Pantry Area)	Nos	3	3577.86	10733.58
2.1.4	Supplying, Installation, testing and commissioning LED Mirror Light 8 W, 230V Integral type	Nos	4	1966.67	7866.68
2.1.5	Supplying, Installation, testing and commissioning LED Bracket Light of 8 W, 230V.	Nos	2	1816.67	3633.34
2.1.6	Supplying, Installation, testing and commissioning LED wall Light of 16 W, 230V.(IP54)	Nos	8	2900	23200.00
2.1.7	Supplying, Installation, testing and commissioning 8W LED wall light(Balcony Light)(IP54)	Nos	3	2166.67	6500.01
2.1.8	Supplying, Installation, testing and commissioning	Nos	16	1400	22400.00

	T5 LED Tube light 16 W, 230V.				
2.1.9	Supplying and erecting LED square / circular 16 to 20W down lighter having pressure die-cast aluminium housing, opal translucent cover, mounting arrangement with board for surface type or spring loaded mounting clips for flush type complete.	Nos	50	1835.12	91756.00
2.1.10	Supplying and erecting LED square / circular 9 to 12W down lighter having pressure die-cast aluminium housing, opal translucent cover, mounting arrangement with board for surface type or spring loaded mounting clips for flush type complete.	Nos	8	1177.6	9420.80
2.1.11	Supplying, Installation, testing and commissioning 40 W Chandelier with dimmer	Nos	3	4516.67	13550.01
2.1.12	Supplying, Installation, testing and commissioning 1 W LED Module (GOQ 6500k/4000k)(TRIDONIC)	Mtr.	450	835	375750.00
2.1.13	Supplying, Installation, testing and commissioning Infra whit heat bulb 250 W, 230V(For Kitchen)	Nos	7	3100	21700.00
2.1.14	Supplying and erecting LED flexible strip light 5m length up to 25W conforming IP 65 of any colour with driver complete.	Mtr	90	2661.5	239535.00
3	SWITCHGEAR : DISTRIBUTION BOARDS				
3.1	LT - MCB's (SW-MCB)(LEGRAND)				
3.1.1	Supplying, erecting & marking TPMCB 40A to 63A in provided distribution board as per specification No. SW-SWR/MCB	Nos	3	1055.74	3167.22
3.2	LT - MCBDB's (SW-MCBDB)				
3.2.1	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SP / TP MCBs of total 36 ways on iron frame/wooden board. (Vertical Busbar type) as per	Nos	3	7970.82	23912.46

	specification No. SW-SWR/MCBDB				
3.3	Supplying, erecting & marking SPMCB 6A to 32A, B- series (for lighting) in provided distribution board as per specification No. SW-SWR/MCB	Nos	22	165.89	3649.58
3.4	Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification No. SW-SWR/MCB	Nos	52	177.15	9211.80
3.5	RCCB (SW-RCCB)				
3.5.1	Providing, erecting & commissioning RCCB only of electromagnetic type with 30/100/300 mA sensitivity and having capacity of 16/25 A. 2 pole complete as per specification No. SW-RCCB/RCCB	Nos	6	2166.78	13000.68
3.5.2	Providing, erecting & commissioning RCCB only of electromagnetic type with 30/100/300 mA sensitivity and having capacity of 40 A. 2 pole complete as per specification No. SWRCCB/RCCB	Nos	3	2252.8	6758.40
3.6	Modular switches and Accessories				
3.6.1	Supplying and erecting modular type electronic dimmer 400 / 450W one module ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	3	229.38	688.14
3.6.2	Supplying and erecting modular type blanking plate one module ISI mark approved make duly erected on provided plate & box	Nos	13	23.55	306.15
3.6.3	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 1 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the	Nos	4	198.66	794.64

	background in an approved manner.				
3.6.4	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 2 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved manner.	Nos	41	198.66	8145.06
3.6.5	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 3 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved manner.	Nos	35	230.4	8064.00
3.6.6	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 4 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved manner.	Nos	1	261.12	261.12
3.6.7	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 6 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved manner.	Nos	3	354.3	1062.90
3.6.8	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 8 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved	Nos	8	421.89	3375.12

	manner.				
3.6.9	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 12 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved manner.	Nos	6	476.16	2856.96
3.6.10	Supplying and erecting modular type switch 6A / 10A ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	19	88.06	1673.14
3.6.11	Supplying and erecting modular type switch 16A ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	33	124.93	4122.69
3.6.12	Supplying and erecting modular type electronic step regulator for fan two module ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	2	407.55	815.10
3.6.13	Supplying and erecting modular type 3 pin 6A multi socket with safety shutter ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	42	102.4	4300.80
3.6.14	Supplying and erecting modular type 3 pin 6 / 16A multi socket with safety shutter ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	47	160.77	7556.19
3.6.16	Supplying and erecting modular type D.P. switch 32A with indicator ISI mark approved make duly erected on provided plate and box with wiring connections complete.	Nos	1	191.49	191.49
3.6.15	Supplying and erecting modular type 32A, DP key tag switch with KEY TAG ISI	Nos	1	345.09	345.09

	mark approved make duly erected on provided plate and box with wiring connections complete.				
3.7	Supplying and erecting storage / pressure type Horizontal / vertical water heater 25 Liters of mild steel body, on wall / loft as per specification No. AP-WH/STWH	Nos	1	8848.38	8848.38
4	HT/LT CABLES				
4.1	SITC of following sizes of 1.1 KV grade PVC insulated Armored Copper/ Aluminum conductor cables laid over MS supports cable racks/trays or fixing on walls including clamping the cable to supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as required. For more details read technical spec no. 8 & refer PWD 2013-2014				
4.1.1	Supplying, erecting & terminating PVC armoured cable 4 core 10 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU(Pantry DB)	Metre	100	624.64	62464.00
4.1.2	Supplying, erecting & terminating PVC armoured cable 4 core 6 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU(LPDB 1 & 2)	Metre	200	409.6	81920.00
5	EARTHING				
5.1	Earthing Accessories				
5.1.1	Supplying and erecting G.I. strip of required size used for earthing on wall and/or any other purpose with necessary	Kg	40	161.79	6471.60

	GI clamps fixed on wall painted with bituminous paint in an approved manner with joint required. as per specification No (EA-EP).				
5.1.2	Supplying and erecting G. I. Earth Wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/ conduit with screws in an approved manner.	Kg	50	155.65	7782.50
	Note: Strip will be connected to Existing Earth pit of the Buildings.				
	Earthing Accessories(Lighting Arrster)				
6.1.3	Supply, Installation, Testing and commissioning of UL Certified / CPRI Tested Maintenance Free Earthing comprising of Electrode of 17.2 mm diameter Low Carbon Steel with 250 micron Molecular Copper Bonded Earthing Rod of Length 3m along with 25 kg Carbon Based environment friendly back fill Ground Enhancing compound required to fill up the excavated earth with required quantity as per specification no EA-MOBI	Each	1	15374.34	15374.34
6.1.4	Providing earthing with Galvanised cast iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results as per specification No. EA-EP	Each	1	5359.62	5359.62
6.1.5	Supplying and erecting G.I. strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joint required. as per specification No (EA-EP).	Kg	40	161.79	6471.60

6.1.6	Supplying and erecting G. I. Earth Wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/ conduit with screws in an approved manner.	Kg	50	155.65	7782.50
7	TELEPHONE				
7.1	Supplying & erecting telephone cable 10 pair with 0.5 mm dia. laid in provided PVC casing / conduit as per specification No. WG-TW	Metre	120	60.42	7250.40
7.2	Supplying, erecting & commissioning Junction box suitable for 10 pairs as per specification No. WG-TW	Nos.	1	590.85	590.85
7.3	Supplying & erecting Rosette box RJ type Bakelite box on wall with LED indication duly connected as per specification No. WG-TW	Nos.	10	100.35	1003.50
	ELECTRIC UV MOSQUITO LAMP				
7.1.1	Supplying, erecting & commissioning of Electric UV Mosquito Lamp(2 x20 W)(Note :Work on all kind of insects such as mosquitoes, flies, wasps, bees & moths)	Nos.	2	10766.67	21533.34
	MOBILE PHONE CHARGING STATION				
7.1.2	Supplying, Installation, testing and commissioning Mobile phone charging Station	Nos	1	14650	14650.00
8	PIR Occupancy Sensor controller for Air conditioner				
8.1	Supplying & Fixing Wall mounted PIR Occupancy sensor,360 degree view, Adjustable time delay, LED indicator(Red -PIR), 230V AC,50 Hz, NO & NC Isolated relay.	Nos	4	5450	21800.00
9	LIGHTNING CONDUCTOR & ACCESSORIES				
9.1	Supplying & erecting conventional spike type air termination suitable to carry lightning stroke made up of heavy gauge 40 mm dia copper pipe of standard	Nos.	1	4474.88	4474.88

	length with 5 Nos. copper spikes fixed on copper ball as air terminals duly threaded in copper pipe erected on provided foundation in an approved manner				
9.2	Providing and Back filling earth conductivity enhancing mineral earthing compound of 25 kg Bag complete.	Nos.	1	5880.83	5880.83
10	INVERTER & BATTERIES				
10.1	Supplying, installing, testing & commissioning of 1400 VA Digital pure sine wave inverter based on IGBT technology single phase 230V,50 Hz complete as per specification no. AP-INV (Without batteries)	Nos.	1	12234.75	12234.75
10.2	Supplying and erecting 12 V/135AH TUBULAR Battery with battery terminal wire, duly charged complete with 36 months warranty complete	Nos.	1	15309.82	15309.82
10.3	Supply & installation of Battery RACK For 4 Units Of 200AH/12V Tall Tubular Batteries	Nos.	1	9716.67	9716.67
	ULTRASONIC RAT & RODENT REPELLENT SYSTEM				
11	Supplying, Installation, testing and commissioning Ultrasonic Rat & Rodent Repellent Systems (1 Master console + Drive Up to 2 Transducers)	Nos.	1	40230	40230.00
9.1	Supplying & erecting mains with 2x1.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW	Metre	80	36.86	2948.80
	WIRELESS CALL BELL SYSTEM				
11.2	Supplying, Installation, testing and commissioning Wireless Call bell System(1 Receiver + 5 Remotes Transmitter)	Nos.	1	40333.33	40333.33
12	REMOVING & TAKING IT AWAY OF ELECTRICAL				

ACCESSORIES					
12.1	Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW	Nos.	40	6.14	245.60
12.2	Dismantling the existing Aluminium/copper mains, sub-mains wiring up to 10 sq.mm. along with accessories etc. Complete as per specification No: WG-DM/PW	Meter	50	2.05	102.50
12.3	Dismantling of existing fluorescent fittings of any type & size.	Nos.	18	10.24	184.32
12.4	Dismantling the existing ceiling fan/exhaust fan/cabin fan/bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear.	Nos.	15	24.58	368.70
12.5	Dismantling the existing switchgears, DB, and Bus bar of any size complete with/ without board or angle iron frame Each	Nos.	4	60.42	241.68
12.6	Making the site clear of dismantled DB and switch gears by refilling the holes with cement mortar & finishing in an approved manner.	Nos.	4	46.08	184.32
12.7	Dismantling the existing cables of all types & size up to 10 sq mm.	Meter	50	10.24	512.00
12.8	Dismantling the existing cables of all types & size above 10 sq mm up to 50 sq.mm.	Meter	50	15.36	768.00
12.9	Dismantling the existing cables of all types & size above 50 sq mm.	Meter	50	20.48	1024.00
13	Refilling the holes for dismantled cables with cement mortar & finishing in an approved manner etc. complete	Meter	50	35.84	1792.00
13.1	Dismantling the existing underground cable without damaging it with glands, cable end box including	Meter	50	24.58	1229.00

	refilling the trench up to ground level and making coils				
2	Fire detection system				
1.2	Detectors				
1.2.1	Supply, Installation, Testing and commissioning of Vds approved Soft Addressable type intelligent multicriteria detector with base for use as smoke detector combined both with automatic electronic addressing, microprocessor type and must have integrated short circuit isolator (in case short circuit isolator is not inbuilt, the price of this item shall be inclusive of an independent short-circuit isolator along with each detector). The detector shall have IP 44 protection category & ambient temperature -25°C to + 60°C. The quoted item shall completely comply to the technical specification and required accessories including JB & glands	Nos	11	4250	46750.00
1.2.2	Supply, Installation, Testing and commissioning of Vds approved Soft Addressable type intelligent multi criteria detector with base for use as heat detector with automatic electronic addressing, microprocessor type and must have integrated short circuit isolator (in case short circuit isolator is not inbuilt, the price of this item shall be inclusive of an independent short-circuit isolator along with each detector). The detector shall have IP 44 protection category & ambient temperature -25°C to + 60°C. The quoted item shall completely comply to the technical specification and required accessories including JB & glands.	Nos	4	4550	18200.00
1.3	Supply, Installation, Testing and commissioning of multi tone sounder cum flasher	Nos	3	5750	17250.00

	with 32 selectable tone shall have 99 db output @ 1m , with necessary interfacing module having inbuilt fault isolator with IP 66 Box and required accessories including JB & glands				
1.4	Supply, Installation testing & commissioning of Addressable Manual call points. The same shall be of ABS plastic, square in shape and 4 "x 4" in size. It shall have a "Break glass" message embedded on the glass.	Nos	3	6166.67	18500.01
1.5	Cabling				
1.5.1	Supply, laying, testing & commissioning of 2c x 1.5Sq.mm Cu. FRLS Armoured cable	Mtr.	110	129.33	14226.30
3	Public Address System				
	Supply, installation, Testing, & commissioning of Public Address. Audio amplifier including all necessary control desk, microprocessor based control unit with microphone, BGM, call station and PC inputs including providing necessary rack for mounting the amplifier having Battery backup provisions shall be implemented; the battery voltage shall be 24Vdc, +20% / -10%. and all complete with cable terminations, wiring & conducting with necessary accessories as per Technical Specifications & approval of Client /PMC/ Consultant as below				
1.1	4 Zone Selector console with controller & Music Player	Nos.	1	168935.00	168935.00
1.2	6 Watt Recessed Type Ceiling Mount speakers.	Nos.	11	1350.00	14850.00
1.3	Booster Amplifier - 100 W for Single Channel Operation	Nos.	1	20166.67	20166.67
1.4	Call Station	Nos.	1	15916.67	15916.67
2	Supply & Installation of wiring & conducting for above system with all necessary accessories such as bends, sockets, junction boxes etc. as below:				

2.1	Supply, laying, testing & commissioning of 2c x 1.5Sq.mm Cu. FRLS Armoured cable	Mtr.	100	130.33	13033.00
IV	MECHANICAL WORK				
A	Mechanical Work 17th Floor				
	VRF / VRV OUTDOOR UNITS				
1	Supply and delivery at MDL site of Modular outdoor units, with multi scroll compressors having Invertors Based Compressor based on Unit Configuration. The Unit should have Condenser fan, Electrical Accessories & Microprocessor Based Control panel, isolating valves and all the necessary accessories for proper functioning of the Condensing units and shall be suitable for outdoor application. The unit to be shipped with full charge of Eco- friendly Refrigerent gas (R410A / R407C) and oil, refrigeration-piping controls, first charge of refrigerant etc. The unit shall be compatible for BMS operation- Necessary relay card /soft integrator to be provided. Unit coil fins to have hydrophilic coating. The unit to provide the rated capacity at 35°C outdoor ambient conditions. Vendor to select unit standby capacity with configuration equivalent to the highest installed compressor capacity inside the unit or 30% of total unit HP; whichever is higher. The Supply scope of ODU also include supply of MS Stand duly powder quoted for the placement of ODU. Preferred Make: Daikin, Mitsubishi Electric, Toshiba, Hitachi				
	Outdoor units shall be				

	suitable for delivering following cooling capacities at actual site condition				
	NOTE:- Vendor to select ODU MODULES as per best Available Configuration. Below mentioned capacities are minimum cooling requirements. Standby capacity shall be over and above these capacities.				
1.1	26 Hp	Nos.	1.00	863726.00	863726.00
2	Supply and delivery at MDL site of 1 way cassette type & TFA Indoor Units as follows in VRF System suitable for functioning with above outdoor units:				
	Indoor Fan coil unit consisting of minimum 3 row-cooling coil blower with motor, filters, drain pan & casing. The indoor unit shall be complete with all necessary controls including air and refrigerant temperature sensors and electronic expansion valves thus giving individual, variable refrigerant flow. The electronic expansion valve shall be controlled by the 'fuzzy logic' microprocessor control system via a control board within the indoor unit that includes a unit address recognition system. Indoor cassette units shall have fresh Air port along with canvass connections to the fresh air ducting to complete with necessary clamps, standard inbuilt condensate drain pump along with all the accessories as supplied by the manufacturer. The indoor units shall be suitable for a power supply of 240V/ 1 phase/ 50Hz OR 415V / 3 phase / 50Hz.				
2.1	1 WAY CASSETTE UNITS WITH CORDLESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER				

a	Min. TR requirement: 1.0	NOS.	4.00	57771.00	231084.00
b	Min. TR requirement: 1.2	NOS.	14.00	66010.00	924140.00
2.2	TREATED FRESH AIR UNIT				
a	Min. Hp requirement: 4	NOS.	2.00	110792.00	221584.00
3	SITC of Air Flow Controller for Fresh Air distribution to Indoor Units with all necessary accessories. Preferred Make: Troxs, Ruskin, Aldes				
a	Capacity : 25 cfm	NOS.	10.00	4232.00	42320.00
b	Capacity : 30 cfm	NOS.	2.00	4440.00	8880.00
c	Capacity : 35 cfm	NOS.	6.00	4440.00	26640.00
4	SITC of Refnet joint, Linear expansion valve with all necessary accessories.	NOS.	21.00	4940.00	103740.00
5	Supply, Installation, Testing & Commissioning of following size Seamless heavy gauge Copper piping insulated with nitrile rubber. Refrigeration piping with Insulation to be laid inside the false ceiling taking supports from slab with necessary hangers & anchor fasteners. Supports to be provided at a distance of 3 mtr for the entire length of the refrigeration piping. Nitrogen Pressure Test of the Piping, and Vacuum zing before pre-charging is part of the piping installation scope. Preferred Make: Armacell/Superlon/ K Flex				
5.1	dia 41.3 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	10.00	2133.00	21330.00
5.2	dia 34.9 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	10.00	1713.00	17130.00
5.3	dia 31.75 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	26.00	1610.00	41860.00
5.4	dia 28.6 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	19.00	1290.00	24510.00
5.5	dia 25.4 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	30.00	1243.00	37290.00
5.6	dia 22.2 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	17.00	987.00	16779.00
5.7	dia 19.05 mm with 25 mm	R.MTR	23.00	890.00	20470.00

	thick nitrile Rubber Insulation					
5.8	dia 15.8 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	34.00	831.00	28254.00	
5.9	dia 12.7 mm with 12.5 mm thick nitrile Rubber Insulation	R.MTR	80.00	719.00	57520.00	
5.1	dia 9.52 mm with 12.5 mm thick nitrile Rubber Insulation	R.MTR	52.00	626.00	32552.00	
5.11	dia 6.35 mm with 12.5 mm thick nitrile Rubber Insulation	R.MTR	52.00	465.00	24180.00	
6	Providing and fixing of Control Cabling between the indoor units & outdoor units. 4C x 2.5 Sq.mm 2XWY XLPE insulated, PVC inner sheathed, copper conductor, armoured , FRLS PVC outer sheathed cables	R.MTR	520.00	216.00	112320.00	
7	Supply, fabrication, fixing in positions with suitable GI angle supports GI perforated cable trays bolted type with all necessary bends, connectors, cover plates, etc. and fabricated using minimum 14 gauge CRCA sheet and width of 300mm & height of 50mm. Further the rate shall also include supporting of these trays with slab using minimum 10mm fully threaded GI Rods and anchor bolts, all complete as required and as per final directions and final approval of the Consultant.	R.MTR	15.00	863.00	12945.00	
8	Providing and fixing of Drain piping in UPVC with all fittings, bends, supports and clamps, including chasing and drilling holes in walls. Preferred Make: UPVC PIPE:PRINCE/ASTRAL/FIN OLEX ; INSULATION : SUPERLON/K Flex/ARMACELL					
8.1	25 mm dia. UPVC pipe with 6 mm thick nitrile rubber insulation.	R.MTR	51.00	163.00	8313.00	
8.2	32 mm dia. UPVC pipe with 6 mm thick nitrile rubber	R.MTR	23.00	195.00	4485.00	

	insulation.				
9	Supply, Installation, Testing, Commissioning of Galvanized Sheet Steel of 120 GSM Rectangular Ducting of size 150x150mm as per specification complete with Tie rod supports, nut-bolts, neoprene gaskets duly installed. Leak Testing of ducts at site shall be carried out as per SMACNA standard.				
9.1	24 G galvanized sheet steel	Sq. Mtr.	72.00	765.00	55080.00
10	Providing and Fixing of 19mm Closed Cell Elastomeric Nitrile Rubber Insulation having Density Between 40 to 60 Kg/m ³ . The Insulation Material to be FM Approved. The insulation shall have fire performance such that it passes Class 'O' and Class 1 for surface spread of flame. All insulation joints to be sealed with minimum 3" width 3mm Thk Self Adhesive tape of same material. The width of the sheet is 1000mm. Vendor to provide the certificates of water permeability, Moisture Diffusion Resistance Factor or 'μ' value, Class O & Class 1. Preferred Make of insulation : Armocell/Superlon/ K Flex	Sq. Mtr.	83.00	927.00	76941.00
11	M. S. hot dip galvanized structural work fabricated as per the site requirement/design for HVAC works.	Kg	500.00	130.00	65000.00
12	Installation, Testing and Commissioning of VRF outdoor unit all complete along with all accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping with adequate charging of refrigerant gas same as that provided by factory pre charged gas for				

	complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Cost includes lifting, shifting, positioning at site as per drawing, the outdoor units to the terrace floor and necessary top up refrigerant gas.				
12.1	26 Hp	Nos.	1.00	35667.00	35667.00
13.1	Installation, Testing and Commissioning of following 1 Way Cassette Type Units & TFA Units as follows in VRF System complete along with cordless remote controllers, accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping and drain pump kit , adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers.				
	Installation also includes cost of lifting, shifting, positioning at site as per drawing, the Indoor Units to the respective locations on each floor as per drawing/as directed as MDL Engineers.				
13.2	CASSETTE UNITS WITH CORDLESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER				
a	Min. TR requirement: 1.0TR	NOS.	4.00	2567.00	10268.00
b	Min. TR requirement: 1.2TR	NOS.	14.00	2567.00	35938.00
13.3	TREATED FRESH AIR UNITS				
	Min. Hp requirement: 4	NOS.	2.00	6833.00	13666.00
14	Comprehensive, all inclusive Annual Maintenance Charges for entire VRF System after completion of Defect Liability Period (Inclusive of 1 Year Warranty period). The VRF				

	System shall include all items covered in Electrical, Electronic and Mechanical devices as per installation.				
14.1	AMC charges for First Year after completion of Defect Liability period	LS	1.00	100333.00	100333.00
14.2	AMC charges for Second Year after completion of Defect Liability period	LS	1.00	110700.00	110700.00
14.3	AMC charges for Third Year after completion of Defect Liability period	LS	1.00	121770.00	121770.00
B	Mechanical Work 18th Floor				
	VRF / VRV OUTDOOR UNITS				
1	Supply and delivery at MDL site of Modular outdoor units, with multi scroll compressors having Invertors Based Compressor based on Unit Configuration. The Unit should have Condenser fan, Electrical Accessories & Microprocessor Based Control panel, isolating valves and all the necessary accessories for proper functioning of the Condensing units and shall be suitable for outdoor application. The unit to be shipped with full charge of Eco- friendly Refrigerent gas (R410A / R407C) and oil, refrigeration-piping controls, first charge of refrigerant etc. The unit shall be compatible for BMS operation- Necessary relay card /soft integrator to be provided. Unit coil fins to have hydrophilic coating. The unit to provide the rated capacity at 35°C outdoor ambient conditions. Vendor to select unit standby capacity with configuration equivalent to the highest installed compressor capacity inside the unit or 30% of total unit HP; whichever is higher. The Supply scope of ODU also				

	include supply of MS Stand duly powder quoted for the placement fo ODU. Preferred Make: Daikin, Mitsubishi Electric, Toshiba, Hitachi				
	Outdoor units shall be suitable for delivering following cooling capacities at actual site condition				
	NOTE :- Vendor to select ODU MODULES as per best Available Configuration. Below mentioned capacities are minimum cooling requirements. Standby capacity shall be over and above these capacities.				
1.1	24 Hp	Nos.	1.00	770082.00	770082.00
2	Supply and delivery at MDL site of 1 way cassette type & TFA Indoor Units as follows in VRF System suitable for functioning with above outdoor units:				
	Indoor Fan coil unit consisting of minimum 3 row-cooling coil blower with motor, filters, drain pan & casing. The indoor unit shall be complete with all necessary controls including air and refrigerant temperature sensors and electronic expansion valves thus giving individual, variable refrigerant flow. The electronic expansion valve shall be controlled by the 'fuzzy logic' microprocessor control system via a control board within the indoor unit that includes a unit address recognition system. Indoor cassette units shall have fresh Air port along with canvass connections to the fresh air ducting to complete with necessary clamps, standard inbuilt condensate drain pump along with all the accessories as supplied by the manufacturer. The indoor units shall be suitable for a power supply of 240V/ 1				

	phase/ 50Hz OR 415V / 3 phase / 50Hz.				
2.1	1 WAY CASSETTE UNITS WITH CORDLESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER				
a	Min. TR requirement: 1.2	NOS.	11.00	64955.00	714505.00
b	Min. TR requirement: 2.0	NOS.	3.00	69141.00	207423.00
2.2	TREATED FRESH AIR UNIT				
a	Min. Hp requirement: 4	NOS.	2.00	110792.00	221584.00
3	SITC of Air Flow Controller for Fresh Air distribution to Indoor Units with all necessary accessories. Preferred Make: Troxs, Ruskin, Aldes				
a	Capacity : 30 cfm	NOS.	1.00	4232.00	4232.00
b	Capacity : 40 cfm	NOS.	12.00	4440.00	53280.00
c	Capacity : 45 cfm	NOS.	1.00	4440.00	4440.00
4	SITC of Refnet joint, Linear expansion valve with all necessary accessories.	NOS.	18.00	4940.00	88920.00
5	Supply, Installation, Testing & Commissioning of following size Seamless heavy gauge Copper piping insulated with nitrile rubber. Refrigeration piping with Insulation to be laid inside the false ceiling taking supports from slab with necessary hangers & anchor fasteners. Supports to be provided at a distance of 3 mtr for the entire length of the refrigeration piping. Nitrogen Pressure Test of the Piping, and Vacumizing before pre-charging is part of the piping installation scope. Preferred Make: Armacell/Superlon/ K Flex				
5.1	dia 41.3 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	10.00	2133.00	21330.00
5.2	Dia 34.9 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	10.00	1713.00	17130.00
5.3	dia 31.75 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	45.00	1610.00	72450.00
5.4	dia 28.6 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	17.00	1290.00	21930.00

5.5	dia 25.4 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	20.00	1243.00	24860.00
5.6	dia 22.2 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	30.00	987.00	29610.00
5.7	dia 19.05 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	52.00	890.00	46280.00
5.8	dia 15.8 mm with 25 mm thick nitrile Rubber Insulation	R.MTR	19.00	831.00	15789.00
5.9	dia 12.7 mm with 12.5 mm thick nitrile Rubber Insulation	R.MTR	48.00	719.00	34512.00
5.1	dia 9.52 mm with 12.5 mm thick nitrile Rubber Insulation	R.MTR	47.00	626.00	29422.00
5.11	dia 6.35 mm with 12.5 mm thick nitrile Rubber Insulation	R.MTR	16.00	465.00	7440.00
6	Providing and fixing of Control Cabling between the indoor units & outdoor units. 4C x 2.5 Sq.mm 2XWY XLPE insulated, PVC inner sheathed, copper conductor, armoured , FRLS PVC outer sheathed cables	R.MTR	360.00	216.00	77760.00
7	Supply, fabrication, fixing in positions with suitable GI angle supports GI perforated cable trays bolted type with all necessary bends, connectors, cover plates etc. and fabricated using minimum 14 gauge CRCA sheet and width of 300mm & height of 50mm. Further the rate shall also include supporting of these trays with slab using minimum 10mm fully threaded GI Rods and anchor bolts, all complete as required and as per final directions and final approval of the Consultant.	R.MTR	10.00	863.00	8630.00
8	Providing and fixing of Drain piping in UPVC with all fittings, bends, supports and clamps, including chasing and drilling holes in walls. Preferred Make: UPVC PIPE:PRINCE/ASTRAL/FIN OLEX ; INSULATION :				

	SUPERLON/K Flex/ ARMACELL				
8.1	25 mm dia. UPVC pipe with 6 mm thick nitrile rubber insulation.	R.MTR	50.00	163.00	8150.00
8.2	32 mm dia. UPVC pipe with 6 mm thick nitrile rubber insulation.	R.MTR	14.00	195.00	2730.00
8.3	50 mm dia. UPVC pipe with 6 mm thick nitrile rubber insulation.	R.MTR	20.00	250.00	5000.00
9	Supply, Installation, Testing, Commissioning of Galvanized Sheet of 120 GSM Rectangular Ducting of size 150x150mm as per specification complete with Tie rod supports, nut-bolts, neoprene gaskets duly installed. Leak Testing of ducts at site shall be carried out as per SMACNA standard.				
9.1	24 G galvanized sheet steel	Sq.Mtr.	165.00	765.00	126225.00
10	Providing and Fixing of 19mm Closed Cell Elastomeric Nitrile Rubber Insulation having Density Between 40 to 60 Kg/m ³ . The Insulation Material to be FM Approved. The insulation shall have fire performance such that it passes Class 'O' and Class 1 for surface spread of flame. All insulation joints to be sealed with minimum 3" width 3mm thk Self Adhesive tape of same material. The width of the sheet is 1000mm. Vendor to provide the certificates of water permeability, Moisture Diffusion Resistance Factor or 'μ' value, Class O & Class 1. Preferred Make of insulation : Armacell/Superlon/ K Flex	Sq.Mtr.	62.00	927.00	57474.00
11	M.S. hot dip galvanized structural work fabricated as per the site requirement/design for HVAC works.	Kg	500.00	130.00	65000.00
12	Installation, Testing and Commissioning of VRF				

	<p>outdoor unit all complete along with all accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping with adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers.</p> <p>Cost includes lifting, shifting, positioning at site as per drawing, the outdoor units to the terrace floor and necessary top up refrigerant gas.</p>				
12.1	24 Hp	Nos.	1.00	35667.00	35667.00
13	<p>Installation, Testing and Commissioning of following 1 Way Cassette Type Units & TFA Units as follows in VRF System complete along with cordless remote controllers, accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping and drain pump kit , adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers.</p> <p>Installation also includes cost of lifting, shifting, positioning at site as per drawing, the Indoor Units to the respective locations on each floor as per drawing/as directed as MDL Engineers.</p>				
13.1	CASSETTE UNITS WITH CORDLESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER				
a	Min. TR requirement: 1.2	NOS.	11.00	2567.00	28237.00
b	Min. TR requirement: 2.0	NOS.	3.00	2567.00	7701.00

13.2	TREATED FRESH AIR UNITS				
	Min. Hp requirement: 4	NOS.	2.00	6833.00	13666.00
14	Dismantling & removing existing DX Split High Wall Indoor & Outdoor Unit, piping work & all its accessories etc. all complete in all terms including lifting and shifting the same to a proper place designated by client on site.	Nos	10.00	2167.00	21670.00
15	Comprehensive, all inclusive Annual Maintenance Charges for entire VRF System after completion of Defect Liability Period (Inclusive of 1 Year Warranty period). The VRF System shall include all items covered in Electrical, Electronic and Mechanical devices as per installation.				
15.1	AMC charges for First Year after completion of Defect Liability period	LS	1.00	95667.00	95667.00
15.2	AMC charges for Second Year after completion of Defect Liability period	LS	1.00	105800.00	105800.00
15.3	AMC charges for Third Year after completion of Defect Liability period	LS	1.00	116613.00	116613.00
16	AIR CURTAINS				
	Supply, Installation, Testing & Commissioning of Air curtain for above door mounting of 1100cfm having Airstream width of minimum 0.9 meter with a minimum air throw of 3 mtrs. Unit to have standard IS marked Motors to deliver suitable airflow. The unit to have twin fan speeds, and duly MS Powder coated, along with necessary cabling, remote & complete in all respects.	NOS.	1.00	25100.00	25100.00
	TOTAL				59950696.01
	Goods & Service Tax (in Percentage)				
	NET TOTAL				
17	BUY BACK ITEM				
	Buy Back Price (Rebate) to be quoted by the Bidder for dismantling existing Split AC				

<p>units (outdoor & indoor) -04 Nos along with its piping & all accessories and taking away the same outside MDL premises as directed by Engineer in Charge including loading, transporting, unloading etc all complete. It shall be taken out under buy back scheme for the price as quoted. (The bidder is required to offer their quote subject to minimum of ₹11,040/- as buy back price)</p>				
<p>GRAND TOTAL (NET TOTAL - REBATE)</p>				

3. BUY BACK ITEM
List of 04 AC (For Buy Back Scheme)
17th FLOOR

Sr No	MDL Asset No	Asset description
1	400310166	SPLIT A.C., Cap-4500 Kcal/Hr (1.5 TON), Make-Blue Star
2	400310168	SPLIT A.C., Cap-3000 Kcal/Hr (1 TON), Make-Blue Star
3	400310171	SPLIT A.C., Cap-3000 Kcal/Hr (1 TON), Make-Blue Star
4	400310175	SPLIT A.C., Cap-3000 Kcal/Hr (1 TON), Make-Blue Star

List of 10 ACs (To be dismantled and handed over to MDL)

18th FLOOR

Sr No	MDL Asset No	Asset description
1	400313493	SPLIT A.C., Cap-5300 W (1.5 TON), Make-YORK
2	400313494	SPLIT A.C., Cap-5300 W (1.5 TON), Make-YORK
3	400313495	SPLIT A.C., Cap-5300 W (1.5 TON), Make-YORK
4	400313496	SPLIT A.C., Cap-5300 W (1.5 TON), Make-YORK
5	400313606	SPLIT A.C., Cap-5200 W (1.5 TON), Make- Onida
6	400313607	SPLIT A.C., Cap-5200 W (1.5 TON), Make- Onida
7	400313608	SPLIT A.C., Cap-5200 W (1.5 TON), Make- Onida
8	400313609	SPLIT A.C., Cap-5200 W (1.5 TON), Make- Onida
9	400313610	SPLIT A.C., Cap-5200 W (1.5 TON), Make- Onida
10	400313611	SPLIT A.C., Cap-5200 W (1.5 TON), Make- Onida