

ई निविदा दस्तावेज

E- TENDER DOCUMENT

भाग-II

(प्राइस बीड)

PART-II

(PRICE BID)

(Rates to be filled in E-procurement portal)

(रेट्स केवल ई-प्रॉक्यूरमेंट पोर्टल में ही भरा जावे)

**सगमा शाखा रांची का फर्नीशिंग एवं इलैक्ट्रिकल कार्य
FURNISHING AND ELECTRICAL WORK AT
SAGMA BRANCH RANCHI**



क्षेत्रीय कार्यालय रांची
REGIONAL OFFICE RANCHI

PART-II
(PRICE BID)

Rates to be filled in E-procurement portal
(TO BE SUBMITTED ONLINE ONLY)

BILL OF QUANTITY

ABSTRACT**SUB: FURNISHING AND ELECTRICAL WORK AT SAGMA BRANCH**

Sr. no.	Particulars	Amount
1	Furnishing work (Part-A)	<i>To be filled in E-procurement portal only</i>
2	Electrical and allied work work (Part-B)	
3	Total (1+2)	
4	Discount if any	
5	TOTAL (3 - 4)	

The Prices quoted must be inclusive of all taxes, duties labour, transporation etc. **except GST. GST will be reimbursed as applicable.*

**Seal & Signature
of Firm,**

SUMMARY OF COST**ESTIMATE FOR FURBISHING WORKS OF BO SAGMA BRANCH UNDER
RO RANCHI**

S.NO	DESCRIPTION	AMOUNT in Rs
A	PAINTING WORK (TO BE DONE BY LANDLORD)	
B	CIVIL & DISMANTALING WORKS (TO BE DONE BY LANDLORD)	
F	LOW SIDE AIR-CONDITIONING WORKS	
	TOTAL REVENUE EXPENDITURE (A+B+F)= 1	
C	FALSE CEILING WORK	
D	FURNISHING WORK	
E	ELECTRICAL	
	TOTAL CAPITAL EXPENDITURE	
	TOTAL ESTIMATED COST (1+2)	

NOTE: GST TO BE ADDED EXTRA AS APPLICABLE

**Estimate for furnishing works for Central Bank of India, BO Sagma Branch
under Region RANCHI**

(Quoted rates shall be inclusive of all labour, material, scaffolding etc and
(Excluding GST)

S.No.	Item Description	Quantity	Unit	Rate	Amount
A	FALSE CEILING WORK				
1	PLAIN GYPBOARD FALSE CEILING WITH PAINTING : Providing and fixing suspended false ceiling consisting of 12.5mm thick Gypsum board (India Gypsum) suspended on GI framework. GI framework to consist of GI perimeter channels 0.55mm thick 20mm x 30mm along perimeter of false ceiling of ceiling, screw fixed to wall/partition with nylon sleeves and screws @ 600mm c/c. Suspending GI intermediate channels of size 0.9mm thick 45mm x 15mm from the soffit at max dist 1220mm c/c with ceiling angle 0.55mm thick 25mm x 10mm fixed to soffit using proprietary supplied GI cleats and steel expansion fasteners. Boards to be finished with proprietary supplied jointing tape and jointing compound and sand papered to achieve a smooth and seamless finish and 2 coats of primer along with coats of Acrylic paint suitable for Gypsum board up to Bank's Satisfaction .Rate quoted to include vertical all cut-outs required for light fixtures, smoke detectors and other services cut-outs complete as directed by Architect. Only Horizontal plan area will mesurered for payment purposes.	327.0	Sq ft.		
2	GRID FALSE CEILING /Modular False ceiling : Providing and fixing suspended false ceiling consisting : approved make MODULAR CEILING Providing & Fixing false ceiling at all heights of 600x600 mm Armstrong mineral fibre ceiling tiles of type RH-90/95 laid on Armstrong prelude XL exposed grid systems with 9mm wide T-section flanges color white. The frame work comprises of main runner spaced at 1200 C/C hangers (GI wire) to be fixed by the approved roof plugs, screws etc. The last hanger at the end of each main runner should not be greater than 450 mm	318.0	Sq ft.		

from the adjacent wall. Fitting 1200 long cross tees (with double stitching) to be interlocked between main runners at 600mm center from 1200x600mm modules. Cut cross T section longer than 600mm to be supported independently 600x600mm module to be formed by fittings 600mm long flush fitting cross tees centrally between the 1200mm cross tees. Perimeter trim to be Armstrong wall angle secured to walls at 450 mm maximum centres.

TOTAL FOR FALSE CEILING WORKS (A)

B INTERIOR FURNISHING WORKS

P/F SOLID PARTITIONS frame work of Aluminium 290.0 Sq
with sections 1.75"x1.75" at spacing not 0 ft.
exceeding 2'-0" c/c both ways (vertical member to be in one peice), covered with 8 mm thk commercial BWR ply wood / partly glazed with approved shape & shade 1mm thk laminate/mica fixing on inside of panel with 1.5 mm thk grooves in panel as per the design with provision of the openings in the panel for switch boards, box and cuts in frame for carrying conduits if necessary and fixing 1.0 mm laminate on the outside face of shade and colour as per Bank's colour scheme given in the tender specification with 8 mm glass to be given in the design. The open edges are to be blocked by teak wood bead of required size and design. All provisions to be made for all electrical, networking boxes onto partition framework at required heights/levels with necessary additional supports as directed.

Providing and pasting frosted film (3M, Garware make) on glass work including Bank's logo as required & as directed by the Architect.

Including providing of solid flush door made out of 35mm with both side laminate finish with necessary fitting with door closer provision . All material is of approved brand. Size of door 900 x2100 Doors-Providing and fixing single leaf solid core flush door 40mm thick factory made, finished on both sides with 1.0mm thick laminate of approved shade as indicated in drawing. Shutter to be lipped on all sides with 12mm thick teak wood beading. Applicable hardware's to be considered for following doors according to

requirement as per detailed drawings including below mentioned hardware-Door closer, SS Ball bearing Hinges, SS foot operated Door stopper, SS Mortise Latch Lock / concealed dead lock, SS Mortise Handle.

Measurement shall be considered only up to False Ceiling Level only.

2 Full/ Low height /glazed partition with 12 mm glass with polished edges. 52.00 Sq ft.

a frame work of Aluminium with sections 1.75"x1.75" at spacing not exceeding 2'-0" c/c both ways (vertical member to be in one peice as per site condition and as directed Architect in charge.

b Panel for solid partition fixing 8 mm water proof plywood, ant termite, borer proof plywood of century, Duro make on both the sides of frame work with fevicol SH and headless nails of 17 no of 1.25" length and securing the cover with 1.5" long steel nettled fold screw. Making the plywood surface level before fixing the laminate/veneer.

c 1mm thk laminate/ mica fixing on inside of panel with 1.5 mm thk Groove in the panel for switch borads, box and cuts in frame for carrying conduits if necessary, and fixing 1.0mm laminate on the outside faces of shade and colour as per CBI colour scheme given in the design. The open edge are to be blocked by teak wood bead of required size and design with 6 mm groove.

d Including below mentioned hardware-Door closer, SS Ball bearing Hinges, SS foot operated Door stopper, SS Mortise Latch Lock / concealed dead lock, SS Mortise Handle.

Providing and pasting frosted film (3M, Garware e make) on glass work including Bank's logo as required & as directed by the Architect.

3 P/F CEMENT BONDED PARTICLE BOARD PARTITIONS made out of Galvanised Aluminium cross section 2"x1 1/2" framework (with minimum thicknes of 1.6mm to 2mm) at 2'-0" c/c both ways, covered with 6 mm thk Cement Bonded Particle Board / partly glazed with approved shape. Finished with primer and 2 coats of paint as per Banks approved shade 113.0 Sq 0 ft.

including making grooves as per design with provision of the openings in the panel for switch boards, box and cuts in frame for carrying conduits if necessary with 8 mm glass (if any) to be given in the design. All provisions to be made for all electrical, networking boxes onto partition framework at required heights/ levels with necessary additional supports as directed. Make: Bison make cement bonded particle board.

- 4 Providing and fixing of Toughened glass doors 5.00 No
with below fixtures of size 3'-6"x7'-0"mm 's.
Door Lock

Door stopper

Floor Machine

Parch fitting

S.S. Handle 12" long

- 5 Providing and fixing of fixed Toughened glass at 72.00 Sq
Main entry upto 7' Height Only with all ft.
necessary hardware & fittings, complete in all
respects.

- 6 **WALL PANELLING: Fabricating and fixing 174.0 Sq**
wall/column panelling to consist of 1.5"x1" 0 ft.
Aluminium Sections at spacing not exceeding
2' c/c both ways (horizontal and vertical).
Panelling framework to be secured to wall
surface/ column surface. Panelling framework
to be clad on one side with 8mm thick
commercial ply finished with 1.0mm thk
laminate including skirting of 100mm high &
12mm x 12mm groove at skirting level. AT
GYPSUM CEILING BOTTOM LEVEL 25MM RED+75
MM BLUE BANK'S BRANDING PATTA IS TO BE
PROVIDED ALL AROUND THE BANKING HALL AND
AS PER INSTRUCTIONS OF ARCHITECT.

- 7 P/F Decorative Wall/ wall panelling made of 73.00 Sq
teak wood, artificial grass, plants, and LED ft.
concealed lights etc. as per design. Work shall
be completed in all respects and as per
instructions of Project Architect. For BM Cabin
Back Wall

- FILE STORAGE CABINETS: Providing and fixing the 1'-6" wide storage units. The storage units shall have shutters made in 19mm plywood and finished in laminate of approved shade including top. The storage units shall have intermediate shelves made in 19mm thick plywood with matching wood lipping. The storage shall have matching wood edge moulding as per the detail drawings. This also includes providing necessary hardware like handles, hinges, locks, tower bolts etc of approved make. All exposed wooden surfaces shall be stained to shade. (same for Over Head storage required above Pantry counter.) 231.0 Sq
0 ft.
- 8
- WRITING TABLE: Writing desk made of wood with glass top as per Design Size: 3'0"X1'0" minimum. 1.00 No
's.
- 9
- Writing Ledge to have facility of pigeon holes beneath to place the pay in / pay-out slips etc.
- VERTICAL BLINDS -P/F Blinds made using 100% polyester with acrylic polymer coating.(only for external windows. In case of front facia necessary approval need to be obtained). 50.00 Sq
ft.
- 10
- CHEQUE DROP/ COMPLAINT BOX :(2'-0" x 18" High X 10" deep) Providing and fixing cheque drop/ Complaint box made out of 19mm thk. Commercial plywood grade I finished with 1mm thk. Laminate. Slit should be provided to drop cheques and opening provided with locking arrangement to remove cheques, complete in all respect. 1.00 No
's.
- 11
- NOTICE BOARD: Providing and fixing notice board of 4'-0"X2'-6" size in ply board of 6mm fixed on a frame of 50 mm x 25 mm well seasoned wood polished and top fixed with bead. 12mm thk. Soft board clad with fabric of matching colour and shade complete with all fixtures necessary as required. 1.00 No
's.
- 12
- WHITE BOARD: Providing and fixing WHITE board of 4'-0"X2'-6" outer edges finish with aluminium anodized section. 2.00 No
's.
- 13
- ARTIFICIAL PLANTERS & PLANTER BOX: Providing & fixing of 1'-6" x 3'-0" planter box 18" high, made of 19mm thick ply board, with teak wood Gola of size 1½ "x ¾ " as per design, which is to be polished as per color scheme. The planter box shall be finished with 1mm thick laminate of approved shade / colour, complete as per 0.00 No
's.
- 14

Bank's approved brand/make. Inside of planters shall be painted with synthetic enamel paint as per color scheme. Planter box to be furnished with white rounded pebbles & Artificial Bamboo Silk trees or Artificial Palm Trees of 3'-0" ht. (3 Nos. trees per planter box).

- 15 DRESSING TABLE(Strong Room): Providing & supplying dressing table with mirror of size 1'-0" x 5'-0" including sitting desk for locker room as per standard design of locker room / dwg. 1.00 No 's.

- 16 CENTRE TABLE: Providing Centre table of 30" diameter, with stainless steel base frame & 12mm glass of approved quality at top as per drawing approved by Bank. 0.00 No 's.

17 TABLES/ COUNTERS

Providing and placing in position tables with top, Vertical sides/ dividers, skirting and modesty panel made out of 19mm thk Premium board (Green/ Century) with 1mm thk laminate (as/ bank's shade approved by architect) on all exposed surfaces. It shall also have 75mm x40mm teak wood runners below the top and for footrest below. Every table shall provided with side unit (size- w-500mm, H-750mm approx.), consisting of 150mm deep drawer at top and a cabinet with open able/ hinged shutter below.

The facia of drawer and shutter of cabinet below shall be made out 19mm thick Premium Board (Green /Century) with 1mm thick laminate (as/shade approved by the Architect) and sides and bottom of drawer shall be made out of 12mm thick Premium Board (Green /Century). The side unit shall have CAM locks, handles, guides, sliding units, hinges, magnetic catcher's etc. of approved make. Every table shall be provided with a keyboard drawer unit (size - W-550mm, H-100mm, D-300mm approx.) below. The table shall have 100mm deep fascia, below the top, in which keyboard drawer unit shall be adjusted. It shall be made out 19mm thick water proof board with 1mm thick laminate (as/shade approved by the Architect) and sides and bottom of drawer shall be made out of 12mm Premium ply (Green /Century). The unit shall have CAM locks,

handles, guides, sliding units etc. of approved make.

The job shall include for 6mm x 6mm grooves in between sides and open able drawers and hinged shutters. All the exposed edges of Premium Board (Green /Century) and ply shall be provided with 6mm thick teak wood/hard wood lipping. All teak wood surfaces shall be melamine polished and other internal surfaces shall be provided with 0.8 mm white mica or painted with two coats of synthetic enamel over one coat of primer, all complete to the satisfaction of the Architect. Every table top shall be provided with 10mm thick float glass (as per profile) with polished/ bevelled edges.

a	BM Table of size 6'-0"x3'-0" & 2'-6" high with Side credenza of size 4'-0"x1'-6" & 2'-6" high	1.00	No 's.
b	Officer Table size 5'-0"x 2'-6" & 2'-6" high with Side credenza of size 3'-6"x1'-6" & 2'-6" high	3.00	No 's.
c	Officer Table size 4'-0"x 2'-0" & 2'-6" high with Side credenza of size 3'-x1'-6" & 2'-6" high	0.00	No 's.
d	SWO Table size 5'-0"x 2'-6" & 2'-6" high	0.00	No 's.
e	Daftari size 3'-x2'-0" & 2'-6" high	0.00	No 's.

18	CASH COUNTERS: Providing, Fabricating and supplying and fixing in position service/cash counter as per the plan made with 18mm, 12mm and 6mm ply of approved make and quality with a counter top of 2.5' width at a height of 2.5'/3.5' from the floor, with a length of 5.0' or as per plan or directed/as per the site conditions, and each unit shall be provided with credenza, drawers, keyboard, shuttered shelves etc. complete. All exposed surfaces to be fixed with 1.0mm thk. Laminate and inside faces like drawers, table, side table and back face shall be pasted with 0.7mm off white liner mica. The back side of the cabinet, side tables wherever visible shall have mica same as that of color scheme with all necessary handles, locks, night	5.00	Rft
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latch, hinges, keyboard tray , CPU trolley, Foot rest, wire managers etc complete in all respects and full satisfaction to Bank/ Architect.

	SERVER ROOM COUNTER: (without top glass)	5.00 Rft
19	Laminate colour and shade as per the specification in the tender and lock handle of (Godrej, Dorset or equivalent).	
20	CASH CABIN PARTITION(HT-7'-6"ONLY)	73.00 Sq ft

Providing and fixing of wooden partitions made out of frame work of Aluminium with sections 1.75"x1.75" at spacing not exceeding 2'-0" c/c both ways (vertical member to be in one peice)(at 0mm, 75mm, 750mm, 900mm, 1200mm, 2100mm and 2250mm and ceiling levels) & vertical (at 600mm c/c approx.) divisions or as per site conditions. It shall be covered with 6mm thick Premium Ply with 1 mm thick laminate. (from 0mm to 1200mm and 2100mm to 2550 mm/ceiling levels) on both sides. The design shall have grooves (horizontal or vertical) at various levels, as suggested by the Architect.

The Job shall also include for provision of laying conduits, switch boxes etc. The erection of partition shall include for expansion bolts cleats, clamps bolts, nuts, screws, rivets and other accessories. all complete up to the satisfaction of the Architect All door opening shall have rebated teak wood framework (size - 75mm x 50mm, as per profile) an vertical (2 Nos.)and horizontal (1 No.) sides, with melamine finish and rebate of 40mm x 12mm, all complete up to the satisfaction of the Architect.it shall also Include for door shutters, as per required width and 2250 mm high. It shall be made out of 75mm x 25mm. kail/partal wood (with anti-termite) under framing for styles, top, middle and 100mm x 25mm for bottom rail. It shall be covered with 6mm thick Premium Ply (Green /Century) with 1mm thick laminate. (from 0mm to 900mm and other under frames) in shade and pattern

approved by the Architect, on both sides.

The design shall have teak wood beading as per profile with melamine finish. Door shutters shall have teak wood edging size 40mm x 10mm, as per profile on all sides, with melamine finish. Each shutter shall have hinges, floor spring/sliding arrangement/hydraulic door closer (heavy duty), mortise locks, etc. The rate shall include cost of all Immaterial, labour, T&P, wastage etc. required for proper work.

- 19 **GLASS BARRIER: for cash cabin 12MM NECESSARY) Including ETCHING work.** 25.00 Sq ft

Providing and fixing glass barrier (as per profile and design) in front of cash and ledger counter made out of 12mm thick polished edged float glass (Make - Modi guard or equivalent). It shall have 25mm x 20mm teakwood beading (as/shape approved by the Architect) to hold the glass from sides and top (optional). All teak wood surfaces shall be melamine polished. The rates shall include for cutting in geometrical shape) and polishing the edges, all complete to the satisfaction of the Architect.

- 21 **METER BOXING (Only front face to be measured for payment purpose)** 34.00 Sq ft

Manufacturing, supplying and fixing box type meter storage with overall depth of 1'6" and height as per the size of the metre, comprising of the following.

19mm block board hinged double shutter, height as size of the panel with all around beadings 3/4" x ". powder coated handles, piano hinges, magnetic ball catches, lock, locking arrangement, tower bolts etc., all as per directions.

All visible surfaces to be fixed with 1.0mm thick lamination sheet with matching grains & grooves as per instructions.

All internal & rear surfaces to be painted with two coats of enamel paint over a coat of

primer/putty as directed to get a smooth finish.

Only front area will be measured for payment purpose.

- 22 **Panelling & shutter Boxing with A.C.P. (with Trap door)** 180.0 Sq
0 ft

ACP Panelling & Rolling Shutter Box.

Frame Work-2" X 2" X 1.5 mm thick Aluminium Tubular section (Horizontal/Vertical) Jindal Make.

Aluminium Composite Panel-3.0mm thick of approved color with bonding material.

Signage including lighting MS square pipe of 1" x 1" - 18 gauge for framing with one coat of red oxide & 2 coats of oil paint to avoid rusting. 3" stainless steel Hinges at every 2 on top and Alan key lock at bottom for easy maintenance of electrical. Powder coated 24 gauge GI sheets on all Top, bottom & sides. 26 gauge GI sheets 0.00 Sq
ft

- 22 **at the back as per specification enclosed. Timer: LDR based timer make Kakatia energy system or GE/L&T Make with 5 years comprehensive warranty from manufacturer of the flex/ vinyl and substrate for Indian weather and dust conditions without any restrictive sub clauses. Copy of valid warranty to be provided to the Bank.**

- 23 **TOTAL FOR INTERIOR FURNISHING WORKS (B)**

ELECTRIFICATION AND DATA CABELING WORKS

C WIRING AND CABELING

The rates for the point wiring shall include providing and fixing of following:

a Wiring of the point of any length from a distribution board to point outlet including circuit wiring (i.e from DB to Switchboard)

b Earthing of all switch box and all outlet boxes fitting, fans, 3rd pin of plug with 1.50mm copper wire.

c Modular Switch/ Sockets of Standard make with necessary modular series cover plate and MS Boxes

d Embedding all conduits in walls laying in slabs, above false ceiling or in floors including all accessories as required, cutting and refilling the

chases with cement mortar .

Providing, fixing Modular switches, sockets, M.S. boxes (1.6mm thick) draw boxes, G.I. Pull wires (where required), brass screws, ceiling rose/connector etc.

Adopting separate and independent system of wiring for lighting, power (normal and essential supply). Wiring for following points using PVC insulated copper conductor wires of 650V/1100V grade in MMS grade-PVC conduit concealed/ exposed including switches & sockets as above.

LIGHT : (Maximum three points to be looped from primary)

POWER: (Maximum TWO points in one circuit)

INTERNAL WIRING

1 POINT WIRING :

Providing wiring (supply, fixing, testing and comm. etc) for light point / Exhaust fan point / Call bell point/6A Switch-socket point etc with 2x1.5+1x1.5 sq mm FRLS PVC insulated copper conductor single core multi stranded wire in MMS grade-PVC conduit with conduit accessories like bend , junction box etc in concealed/surface manner as per site requirement with suitable Modular Switches with plate and metal / PVC box, ceiling rose , bulb holder etc including 1.5 sqmm PVC insulated copper earth wire etc complete as required. Wire colors : Red, Black, Green .Supplying, providing wiring (supply, fixing, testing and comm. etc) for circuit with 2 x 1.5 + 1 x 1.5 sq mm FRLS PVC insulated copper conductor single core multi stranded wire in MMS grade-PVC conduit with conduit accessories like bend, junction box etc on surface / recessed manner etc (Wiring from D.B. / Source to Board/destination) and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed.

a	Providing and fixing Primary light point	40.00	No
			's.
b	Providing and fixing Secondary light point (Maximum three points to be looped from primary)	19.00	No
			's.

- Plug point /ceiling Rose Point (for wall fans/Exhaust fan)Supply, fixing and commissioning of 1 No 6A multi Socket with 1 No. 6A switch (Modular type) with cover plate, sheet steel box / PVC modular box etc on surface / concealed manner I/c electrical connections and making good all the damages, painting, cleaning the site etc. complete as required as per site requirement and as directed. 6.00 No 's.
- c
- d P&F Bell point i/c of buzzer 1.00 No 's.
- e **6 AMP. POINTS ON SAME BOARD(Half point) :**
- Supply, fixing, testing and commissioning of 1 No 6 A Multi Socket with 1No. 6 A switch (Modular type) with cover plate , sheet steel box / PVC modular box etc on surface / concealed manner I/c electrical connections and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed. 6.00 No 's.
- f **Ceiling fan point (rate should include electronic fan speed regulator)** 3.00 No 's.
- 2 **16 AMP. POWER POINTS:(including circuit wiring)**
- Supply, fixing, testing and commissioning of 1 No 16 A switch & 1 No. six pin 6/16 Amp. Multi Socket (Modular Type) with cover plate , sheet steel box etc on surface / concealed manner I/c electrical wiring with 2 X2.5 sqmm + 1 X 2.5 sqmm FRLS PVC insulated copper conductor single core multi stranded wire in MMS grade-PVC conduit with conduit accessories like bend, junction box etc on surface / recessed manner etc (Wiring from D.B. / Source to Board to destination) and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed. 8.00 No 's.
- 3 **AC POINTS :**
- Supply, Installation, Testing and commissioning of the surface / recess mounting distribution board with 20 A Metal plug and socket, with 20 A/25A/32A SP MCB Incl. wiring with 2 X 4.0 sq mm + 1 X 4 sqmm PVC insulated copper conductor single core multi stranded wire in 4.00 No 's.

MMS grade-PVC conduit with conduit accessories like bend, junction box etc on surface / recessed manner etc (Wiring from D.B. / Source to Board/destination) and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed.(MCB of C-Curve with S.C Capacity 10 kA)

PANELS AND D.B.'s

4(a) MAIN PANEL/VTPN(4 WAY) :(With following minimum capacity)

Supply, installation, testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board wall mounted fabricated with 14swg and 16swg of CRCAM.S.sheet duly painted with two coat of metal red oxide and two coat of fire resistance paint at inside and out side of the panel, bus-bar chamber, outgoing switchgear etc (all feeder unit Would be compartmentalized), color coded PVC sleeved vertical / horizontal busbar of required size of length, (bus-bar distances shall be minimum 32 mm) insulators, hardware, neoprene gasket, hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / mccb / mcb or where ever required, two earthing terminal busbar of size 25 x 5 mm with nut & bolts at out side of the panel, rating and name plates for all incoming & outgoing, two eye two nos eye bolts, wire mesh jali for ventilation etc comprising with the followings.

NOTE:-

Sheet 16 swg : panel sides, upper, lower, and 4 doors

Sheet 16 swg : back side and compartments.

Gland plates : 3 mm thick.

Cable entry : Provision at bottom and upper sides.

Inside the panel : white colour paint.

Outside the panel : Grey colourpaint,or as directed.

INCOMER

1 Nos 80 Amp MCCB, 25 KA- 4 Pole,C-curve

1 Nos – 100 A TPN insulated Cupper Bus Bar

Set of Indicator Lamps

Set of Voltmeter + Ammeter+ Selector Switch

OUTGOINGS

3 Nos- 40 Amp,1 No-63 A TPMCB,C-curve

100/125 amp CHANGEOVER

SET AS ABOVE

1.00 No
's.

- (b) **SFU TPN 80 A with HRC fuses(just after meter and prior to Main Panel)**

1.00 No
's.

5 LIGHT DISTRIBUTION BOARD

Supply, Installation, Testing and commissioning of the surface / recess mounting following way
TPN MCB three phase distribution board for single phase outgoing with IP 42 protection , direct on wall incl. the followings accessories.

INCOMER

1 No. TPN-RCBO/ELMCB 40 Amp ,100 ma sensitivity

OUTGOINGS

6-8 Nos SPMCB 6/10/16 Amp,B-Curve

SET AS ABOVE

1.00 No
's.

incl. Electrical connection ,earthing, making good all the damages, painting, cleaning the site, etc complete as per site requirement and as directed.

6 AC DISTRIBUTION BOARD

Supply, Installation, Testing and commissioning of the surface / recess mounting following way
MCB three phase distribution board for single phase outgoing with IP 42 protection , direct on wall incl. the followings accessories.

INCOMER

1 No. TPMCB 63Amp ,C-curve

OUTGOINGS

8 Nos SPMCB 25/32 Amp,C-curve

SET AS ABOVE1.00 No
's.

incl. Electrical connection ,earthing, making good all the damages, painting, cleaning the site, etc complete as per site requirement and as directed.

SUBHEAD IV : UPS WIRING**7 U.P.S. DISTRIBUTION BOARD (INCOMER)**

Supply, Installation, Testing and commissioning of the surface / recess mounting following way Double door MCB D.B.- Single phase distribution board (Consumer unit) for single phase out going with IP 42 protection incl. the followings accessories – incl. Electrical connection ,earthing, making good all the damages, painting, cleaning the site, etc complete as per site requirement and as directed.

a INCOMER

1 NOS 40 A DP MCB

OUTGOINGS

2 Nos- 40 Amp DP MCB

SET AS ABOVE1.00 No
's.**b UPS DIST. BOARD OUTGOINGS.**

1 NOS 12 WAY SPN DIST BOARD

1 Nos- 40 Amp DPMCB

6-8 NOS 6/10 AMP SPMCB

SET AS ABOVE1.00 No
's.**8 SPECIAL POINTS: (UPS) any length (TO WORKSTATIONS)**

Supply, fixing, testing and commissioning of following Modular type switch socket with cover plate, sheet steel box etc on surface / concealed manner i/c electrical wiring with 2 X 2.5 sq mm + 1 X 2.5 sq mm FRLS PVC insulated copper conductor single core multi stranded wire in rigid MMS grade PVC conduit with conduit accessories like bend, junction box etc on surface / recessed manner etc (Wiring from D.B. / Source to Board/destination) and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed.

1 Nos. 16 A Switch + 3 Nos. 6 A, 5 pin Socket. 9.00 No
's.

9 **EARTHING**

Copper Chemical Earthing - Supply, Installation, Connection, Testing and Commissioning of 2.00 No
's.

maintenance free heavy duty pure electrolytic copper chemical earthing electrode of 50 mm dia., wall thickness 14 gauge and 3 meter length (as per site conditions) with internal strip of copper (25x6)mm along with 60 kg bag of Back fill compound (highly conductive, non-corrosive moisture retaining chemical) complete with excavation, civil works including top 300 mm deep one brick thick masonry chamber & good quality soil, water pouring arrangements with cast iron cover and with arrangements for fitting/termination of G.I. flats/wire with G.I. nut bolts. The voltage between Neutral and earth not to exceed 0 Volts and IR value less than 1 ohm. The earth resistance shall be as per IS 3043.

Supply and laying of 6.0 sqmm PVC insulated copper wire from earth station to main panel board in 20 mm GI Pipe including all materials, accessories etc complete. 45.00 Mt
r

CABLING :

10 **L.T.CABLES :**

Supply, laying, testing and commissioning of the following 1100 volt grade pvc insulated Al / Cu. Conductor armored cable inner and outer sheathed, along with the two run of G.I. earth wire i/c termination with brass gland and Al. lugs

etc. complete as required.

On surface :

S/Fixing the cable on wall / column / beam / ceiling / above false ceiling / existing trench etc incl. s/f of of saddles / spacers (wherever required as per site conditions) and two run of G.I. earth wire along with the cable. Making good all the damages.

- 4 C x 10.0 sqmm copper cable with 10 SWG 2** 45.00 Mt
 a **Nos G.I. wire for Electric room /Ups room.** r
3.5 C X 35 sqmm. Al. Armored .(with 10 SWG 2 50.00 Mt
 b **Nos. G.I. wire) from electric pole to METER ROOM.** r

11 E-DG Set Supply

S/laying of 3.50 x 25sq.mm XLPE insulated 45.00 Mt
 armored Copper Conductor cable from r
 proposed DG set to Changeover switch
 including its connections at both ends with lugs
 to be laid in 25mm dia rigid PVC flexible
 conduit.

TELEPHONE WIRING / CABLING SYSTEM.

12 TELEPHONE POINT :

Supplying, Installation, testing and commissioning of the telephone point with the followings -

- Two pair, 0.61 mm dia. telephone cable tinned copper conductor, P.V.C. insulated and sheathed, fire retarding, anti termite, color coded twisted pairs and rip cord.
 i). HMS Pvc pipe on beam /column / wall / floor etc with all necessary materials i/c connections,
 ii). identification by numbering etc complete as required as per I.T.D. specification.

- Double outlet with shutter modular type** 1.00 No
 a **Telephone Outlets (RJ - 11) with suitable size** 's.
PVC modular boxes complete as required .
Single outlet with shutter modular type 2.00 No
 b **Telephone Outlets (RJ - 11) with suitable size** 's.
PVC modular boxes complete as required .
 Providing and fixing 10 pair KRONE make 1.00 No
 telephone tag block with 10 pair module with 's.
 c termination and crimping complete and making good the surface as required/ directed.

Providing and fixing 10 pair armored tinned 30.00 Mt
d copper telephone cable in 32 mm PVC conduit r.
from telephone utility junction box.

13 COMPUTER CABLING SYSTEM.

- Supplying, Installation, testing and
1 (i) commissioning of the Computer point with the
followings -
Four pair STP CAT 6 LAN cable tinned copper
conductor, P.V.C. insulated and sheathed, fire
ii) retarding, anti termite, color coded twisted pairs
and rip cord. (from server room switch to I/O
outlet)
HMS Pvc Pipe on beam /column / wall / floor
etc with all necessary materials i/c connections,
iii) identification by numbering etc complete as
required as per At & T specification.
Single outlet with shutter modular type 1 / O's 8.00 No
a Outlets (RJ – 45) with suitable size PVC modular 's.
boxes complete as required. (including 2 for
ATM)
Supply and Installation of following factory 5.00 No
b fabricated patch cords (STP-CAT 6) complete 's.
with connectors and boots on both sides. Two
Meter length
Supply and laying of Four Pair STP CAT 6 LAN 180.0 Mt
c cables including cost of 25mm dia 1.5mm thick 0 rs.
PVC Conduit / Floor tucking.(Rate Only)
2 Supplying and fixing
a 9U/12U Rack 3 side open 1.00 No
's.
b Patch cord cat6 1 metre B/Y Color 12.00 No
's.

15 ELECTRICAL FITTINGS/ FIXTURES

- Supply, fixing, testing and commissioning of
1 Recess mounted decorative luminaire with LED
FIXTURES with class I electrical safety, complete
as required Fitting Dimensions :
a 32-40 watts, Minimum 2800 lumens LED SQUARE 11.00 No
size 600X600X80 mm (Approx.) : CRI>80, PF>0.9 's.
14-15 w ,Minimum 850 lumens LED ROUND 26.00 No
b DOWN LIGHTER Diameter 110- 's.
165mm, CRI>80, PF>0.9
S/F of suspended/ surface mounted/ ceiling/ 8.00 No
c wall mounted 1200 mm long, 20-25 watt LED 's.
Tube light complete in all respects and as per

specification e.g. Crompton/ Philips/
Panasonic/ Syska make.

S/F of 9 watt LED bulb with holder for pantry/ 2.00 No
toilets of rompton/ Philips/ Panasonic/ Syska 's.
make.

2 WALL BRACKET FAN

a Supply and fixing of the following fans Wall 12.00 No
bracket fan white (400mm blade size) 's.

CEILING FAN

b Supply and fixing of CEILING FAN 1200 MM 3.00 No
Sweep 's.

EXHAUST FAN:

Supply and fixing of the following single phase 3.00 No
Exhaust Fan continuously rated, capacitor start 's.
and run type, totally enclosed and ruggedly
built, pre lubricated double ball bearing,
copper wounded, A & E class insulation,
dynamically balanced, below 40 db sound
level etc. Supplying & fixing of 300 dia Exhaust
fans.

TOTAL FOR ELECTRICAL AND DATA CABELING WORKS (C)

D LOW SIDE AIR CONDITIONING WORK

1 Supplying & Laying extra suitable Copper 60.00 Mt
refrigerant piping with all required material. rs.
2 Supplying & Laying extra suitable PVC Drain 60.00 Mt
piping with all required material. rs.
3 Supplying & Fixing suitable MS Stand for 1.5 tr/2 4.00 No
tr AC outdoor 's.
4 Supplying & Laying of power cable from indoor 40.00 Mt
to outdoor suitable for 1.5 tr /2 tr load/AC rs.

TOTAL FOR LOW SIDE AIR-CONDITIONING WORKS (D)

GRAND TOTAL AMOUNT FOR WORKS (A+B+C+D)

Note: All quoted rates are excluding the GST.