

SBI LIFE INSURANCE CO. LTD.

Notice Inviting Tenders

SBI Life Insurance Co.Ltd. invites sealed tenders from the contractors for the Interior & Allied Works for Raipur PC & Banca Branch. Details of the tender are as under:

1. Name of work : Interior & Allied Works for Raipur PC & Banca Branch
2. Time allowed for completion : 60 days from the date of work order.
- 3 Last date and time of receipt of tender : Till 15.00 hrs. on 19th February,2018
- 4 Tender to be addressed to : **THE ADVISOR (ADMIN. UTILITY)
SBI LIFE INSURANCE COMPANY LTD,
2ND FLOOR, RANJEET TOWER,
PLOT NO.8, M.P. NAGAR ZONE - 2
BHOPAL (M.P.) - 462 011**
- 5 Address at which the tenders are to be submitted : AS ABOVE.
- 6 Date and time of opening tenders : At 15.30 hrs. on 19th February, 2018
- 7 Place of opening tenders : AS ABOVE.
- 8 Defects liability period : 1 year
- 9 Validity of offer : 3 months from the date of tender opening
- 10 Liquidated Damages : Rs.5000 per day subject to a maximum of 10 % of contract value

SBI Life has the right to accept any, reject any or all tenders without assigning any reasons therefore.

ABSTRACT OF SCHEDULE OF ITEMS FOR THE PROPOSED INTERIOR AND FURNISHING WORK OF BRANCH OFFICE ,SBI LIFE INSURANCE AT FIRST FLOOR, PUJARI CHAMBERS, RAIPUR .

SUMMARY					
S.NO	DESCRIPTION				AMOUNT
1	INTERIOR FURNISHING WORK				
2	ELECTRICAL WORK				
3	FIRE EXTINGUISHERS				
4	AIR CONDITIONING WORK				
5	CCTV				
6	BIOMETRIC ENTRANCE				
	TOTAL				

BOQ FOR FURNISHING WORK AT RAIPUR

SCHEDULE OF ITEMS FOR THE PROPOSED INTERIOR AND FURNISHING WORK OF BRANCH OFFICE ,SBI LIFE INSURANCE AT FIRST FLOOR, PUJARI CHAMBER, RAIPUR .					
	PART A - FURNISHING WORK				
S.No.	DESCRIPTION	Quantity	Unit	Rate	Amount
1	MAIN ENTRANCE DOOR : P/F New Entrance Glass Door made out of 2nd class Teak wood 4" x 2" sections with Top, Bottom and Vertical members with 8 mm thick Glass, T.W beading/ moulding, complete with melamine polished, Handle of approved design, P/F Heavy Duty Floor Spring of approved make, with all accessories for the Main Entrance Door. The cost includes the Main Door frame made out of 4"x2 1/2" 2nd class Teak wood Frame. Rest as per design, instructions. The Rate Shall be inclusive of side 12mm. Thk. Fixed glass with 4" x 2" Teak wood Top & Bottom sections as mentioned above.	28.00	Sq.ft.		
2	LINEAR / RUNNING WORK STATION: P/F linear / running Work Station having a size of 4'-0"X2'-0"X2'-6"ht. in 25 mm thk. Exterior Grade Block Board of approved make for table top and side supports. The Front apron in 12mm.thk. BWP ply with approved colour Laminate & on fixed Raised panel in 12mm. Thk. Finished In approved colour Laminate for all exposed surface, fixed with S.S. Studs & the top and sides of the counter to be finished on both sides with 1 mm thk. Laminate of approved make and shade / design. A drawer unit of size 1'-4"X1'-8"X2'-5" in 19 mm BWP ply with three drawers as per the drawing etc complete. Rate shall be inclusive of P/F 12mm.thk. front glass 2'-0"ht.on table top for work station with diamond edge polish with S.S."D" brackets .(Low height partitions abutting the counters will be paid separately & also Please Check the Counter Length during execution	136.00	Rft.		

	as per plan / Site Condition).				
3	<p>LINEAR / RUNNING WORK STATION: P/F linear / running Work Station having a size of 4'-0"X2'-0"X2'-6"ht. in 25 mm thk. Exterior Grade Block Board of approved make for table top and side supports. The Front apron in 12mm.thk. BWP ply with approved colour Laminate & on fixed Raised panel in 12mm. Thk. Finished In approved colour Laminate for all exposed surface, fixed with S.S. Studs & the top and sides of the counter to be finished on both sides with 1 mm thk. Laminate of approved make and shade / design. A drawer unit of size 1'-4"X1'-8"X2'-5" in 19 mm BWP ply with three drawers as per the drawing etc complete. Rate shall be inclusive of P/F 12mm.thk. front glass 2'-0"ht.on table top for work station with diamond edge polish with S.S."D" brackets .(Low height partitions abutting the counters will be paid separately & also Please Check the Counter Length during execution as per plan / Site Condition).</p>	20.66	Rft.		
4	<p>LINEAR / RUNNING WORK STATION: P/F linear / running Work Station having a size of 4'-0"X2'-0"X2'-6"ht. in 25 mm thk. Exterior Grade Block Board of approved make for table top and side supports. The Front apron in 12mm.thk. BWP ply with approved colour Laminate & on fixed Raised panel in 12mm. Thk. Finished In approved colour Laminate for all exposed surface, fixed with S.S. Studs & the top and sides of the counter to be finished on both sides with 1 mm thk. Laminate of approved make and shade / design. as per the drawing etc complete. Rate shall be inclusive of P/F 12mm.thk. front glass 2'-0"ht.on table top for work station with diamond edge polish with S.S."D" brackets .(Low height partitions abutting the counters will be paid separately & also Please Check the Counter Length during execution as per plan / Site Condition).</p>	24.00	Rft.		

5	LINEAR / RUNNING WORK STATION: P/F linear / running Work Station having a size of 5'-0"X2'-3"X2'-6"ht. in 25 mm thk. Exterior Grade Block Board of approved make for table top and side supports. The Front apron in 12mm.thk. BWP ply with approved colour Laminate & on fixed Raised panel in 12mm. Thk. Finished In approved colour Laminate for all exposed surface, fixed with S.S. Studs & the top and sides of the counter to be finished on both sides with 1 mm thk. Laminate of approved make and shade / design. A drawer unit of size 1'-4"X1'-8"X2'-5" in 19 mm BWP ply with three drawers as per the drawing etc complete. Rate shall be inclusive of P/F 12mm.thk. front glass 2'-0"ht.on table top for work station with diamond edge polish with S.S."D" brackets .(Low height partitions abutting the counters will be paid separately & also Please Check the Counter Length during execution as per plan / Site Condition).	10.00	Rft.		
6	RECEPTION TABLE Providing and placing Reception table of size 6'0"x2'4"x2'6"ht. Same as Item No. 2 above but table top and sides and extended panels on wall & ceiling in acrylic solid surface with back lit arrangement and other details as per drg.,design & instructions of Architect	1.00	no		
7	DINING TABLE :				
a	Lunch room(Table 4'6"x 2'0" x 2'6") LUNCH ROOM TABLES :- Providing and fixing tables of specified sizes to be made up of 18mm th. BWP grade plywood & 1.00mm thk. laminate finish etc. complete As per drawing / design.	5.00	No		

8	TABLE / WORK STATION WITH CREDENZA WITH TABLE FRONT APRON : P/F Office Table having a size of 5'-0"X 2'-3"X2'-6" in 25mm thk. Exterior Grade Block Board of approved make for table top and sides. Table Front apron made out of 12mm.thk BWP ply with approved colour laminate & on additional raised panel 12mm.thk. BWP ply. With approved colour laminate fixed with S.S. Studs for Table front apron .The Side credenza of size 3'-0"X1'-6"X2'-6"ht. in 19 mm BWP ply with drawers & openable shutters as per the drawing, finishing in 1 mm thk laminate of approved make and shade / design etc. complete. (Low height partitions abutting the counters will be paid separately & Please check the Table width & Side credenza size as per layout to fit site condition).	8.00	No.		
9	TABLE / WORK STATION WITH CREDENZA WITH TABLE FRONT APRON : P/F Office Table having a size of 5'-0"X 2'-3"X2'-6" in 25mm thk. Exterior Grade Block Board of approved make for table top and sides. Table Front apron made out of 12mm.thk BWP ply with approved colour laminate & on additional raised panel 12mm.thk. BWP ply. With approved colour laminate fixed with S.S. Studs for Table front apron .The Side credenza of size 3'-0"X1'-6"X2'-6"ht. in 19 mm BWP ply with drawers & openable shutters as per the drawing, finishing in 1 mm thk laminate of approved make and shade / design etc. complete. (Low height partitions abutting the counters will be paid separately & Please check the Table width & Side credenza size as per layout to fit site condition).				
	AREA MANAGER	1.00	No.		
	CUBICAL TABLE	2.00	No.		

10	CABIN TABLE WITH CREDENZA : P/F Cabin Table having a size of 5'-0"X2'-3"X2'-6" in 25mm thk. Exterior Grade Block Board of approved make for table top and sides. Table Front apron made out of 12mm.thk BWP ply with approved colour laminate & on additional raised panel 12mm.thk. BWP ply. With approved colour laminate fixed with S.S. Studs for Table front apron . The Side credenza of size 3'-6"X1'-6"X2'-6"ht. in 19 mm BWP ply with drawers & openable shutters, as per the drawing, finishing in 1 mm thk laminate of approved make and shade / design etc. complete. (Please check the Side credenza size as per layout to fit site condition).	3.00	No.		
11	LOW HEIGHT PARTITION in BWP Ply & Laminate. P/F Low ht. partition 1.22 m high made out of 16 gauge 50 mm x 50 mm Alum. Framing at 60 cm C to C horizontally & vertically as directed or as per design / instructions. The 16 gauge aluminium angles cleats shall be used for joinery with aluminium metal screw. The aluminium framing then shall be covered with 12mm.Thk. BWP ply of approved make finished in 1 mm thk laminate of approved make & shade. The Partition with Partly 10 mm thk clear float glass with four side 2nd class Teak wood mouldings. The partition top shall be provided with 80 mm wide x 12mm thick moulding patty in 2nd class Teak wood with melamine Polish. The rate also include of Open able Flap door with locking arrangement as per requirement. The necessary openings shall be provided in the partition for the Electrical/Telephone conduits & outlets as per design/instructions.	2084.96	Sq.ft.		

12	FULL HEIGHT PARTITIONS (Fully Panelled) in Ply & Laminate. P/F full height partitions made out of 16 gauge Aluminium Framing of 50 mm x 50 mm at 0.60 m. centre to centre, vertically & horizontally both ways. At every 0.60 m., the Aluminium frame, section of 50 mm. x 50 mm. at wall, side of doors and corners of the partitions must be taken up to RCC ceiling level and rigidly fixed. The 16 gauge aluminium angle cleats shall be used for joinery with aluminium metal screws. The aluminium framing then shall be covered with 12mm.Thk. BWP ply of approved make finished in 1 mm thk laminate of approved make & shade, with necessary cuttings for Electrical conduits & Electrical fittings as per directions. Rest as per design/instructions. The partition rate shall be including 35mm th. glazed/ wooden door with door frames, handles/ locks/ fitting/ door closer/ hinges/ floor spring etc. as per the drawings/design etc. complete . Note : For the measurements of Partitions, area up to the false ceiling height only shall be considered.	936.00	Sq.ft.		
13	PARTLY GLAZED PARTLY PANELLED FULL HT. PARTITION : P/ F. Full height partly glazed partly panelled Partition made out of 2" square aluminium pipe, both ways, at maximum 2' c/c, 12 mm thk BWP ply on both sides, finished in laminate of approved make & shade / design, 6 mm thk clear float glass, mouldings, making necessary cuttings in ply, al pipes etc to accommodate switch / socket boxes, conduit pipes etc, including 35mm th. glazed/wooden door with door frames, handles/ locks/ fitting/ door closer/ hinges/ floor spring etc. as per the drawings/design etc. complete . Note: For the measurements of Partitions, area up to the false ceiling height only shall be considered.	2324.52	Sq.ft.		

14	<p>FULL HEIGHT PARTITIONS (Fully Panelled) in 12 mm thk. Calcium Silicate Board.</p> <p>P/F full height partitions made out of 16 gauge Aluminium Framing of 50 mm x 50 mm at 0.60 m. Centre to centre, vertically & horizontally both ways. At every 0.60 m., the Aluminium frame, section of 50 mm. x 50 mm. at wall, side of doors and corners of the partitions must be taken up to RCC ceiling level and rigidly fixed. The 16 gauge aluminium angle cleats shall be used for joinery with aluminium metal screws. The aluminium framing then shall be covered with 12mm.thk. Gypsum Board of approved make finished with POP punning and 3 coats of approved make & shade of plastic emulsion paint with necessary cuttings for Electrical conduits & Electrical fittings as per directions. Rest as per design/instructions. Note: For the measurements of Partitions, area up to the false ceiling height only shall be considered.</p>	175.50	Sq.ft.		
15	<p>FULL HEIGHT STORAGE (2.13 m HIGH X 0.45 m DEEP)</p> <p>P/F Built in storage made out of 19 mm thk BWP Grade Marine Ply 45 cm deep, 6mm thk BWP Grade Marine Ply for the back, 1-1/4" thk. openable shutters with hinges as recommended & with laminate for all exposed surface & openable shutters in Laminate of approved colour. 19mm. removable shelves with laminate finish on both sides, edges shall be provided with leaping patties on all sides, at 40 cm spacing. All hinges, tower bolts, S.S Brush finish handles, ball-catches shall be of brass heavy duty. Complete with approved make Locks handles etc. complete as per design / instructions. All the shutters shall be made out of 12 mm.BWP Grade ply framing 80mm wide with 3 Nos. wide at middle horizontal and 2 vertical rails and then covered with 6 mm.BWP Grade marine ply from both sides with laminate on both sides of the shutter, as per design/instructions.</p>	615.28	Sq.ft.		

16	WALL HUNG STORAGE (0.75 m HIGH X .33 m DEEP) P/F wall hung storage made out of 19 mm thk BWP Ply 33 cm deep, 6mm thk BWP Grade Ply for the back, 19mm thk.BWP Grade Ply, openable shutters with hinges as recommended & with laminate for all exposed surface, in Laminate of approved colour. 19mm. removable shelves with laminate finish on both sides, edges shall be provided with leaping patties on all sides, at 40 cm spacing. All hinges, tower bolts, S.S Brush finish handles , ball-catches shall be of brass heavy duty. Complete with approved make Locks handles etc. complete as per design / instructions.	23.75	Sq.ft.		
17	LOW HEIGHT STORAGE (0.45 m DEEP) P/F CREDENZA Unit / storage made out of 19 mm thk BWP Ply 45 cm deep, 6mm thk BWP Grade Ply for the back, 19mm thk.BWP Grade BWP ply with drawers & openable shutters with hinges as recommended & with laminate for all exposed surface, in Laminate of approved colour. 19mm. removable shelves with laminate finish on both sides, edges shall be provided with leaping patties on all sides, at 40 cm spacing. All hinges, tower bolts, S.S Brush finish handles , ball-catches shall be of brass heavy duty. Complete with approved make Locks handles etc. complete as per design / instructions.	233.70	Sq.ft.		
18	PRINTER TABLE:- P/F Printer Table storage made out of 19 mm thk BWP Ply deep as per drg., 6mm thk BWP Grade Ply for the back, 19mm thk.BWP Grade BWP ply with drawers & openable shutters with hinges as recommended & with laminate for all exposed surface, in Laminate of approved colour. 19mm. removable shelves with laminate finish on both sides, edges shall be provided with leaping patties on all sides, at 40 cm spacing. All hinges, tower bolts, S.S Brush finish handles , ball-catches shall be of brass heavy duty. Complete with approved make Locks handles etc. complete as per design / instructions.				

a	4'4"x2'3"	1.00	No.		
b	8'4"x2'0"	1.00	No.		
19	MAGNETIC WHITE BOARD : P/F Magnetic board 7'-0"x4'-0" (Ready made) of approved make on panelling / partition & workstations as directed.	1.00	No.		
20	SOFT BOARD :- Providing and fixing soft board made of 12mm thick soft board finished with fabric of approved colour having basic cost of Rs.200/- per mtr. Fixed with rubberwood beading 22x6mm which is melamine polished. etc. complete As per drawing / design.	139.00	Sq.ft.		
21	FLUSH DOOR WITH FRAME : P/F New 2nd class BTC Frame of 100mm x 50 mm with 38 mm thick Readymade Flush Door of approved make, finish from both sides with matching laminate of approved make & shade. The door shall be provided with approved make lock, knob, heavy duty door closer, 4 nos. of 5" brass oxidized hinges, SS Brush finish handle of 12" of approved design & fixing the same in position, etc. complete. Approx.Size:3'-0"x7'-0".				
	LADIES AND GENT' S TOILET(3'X7')	2.00	No.		
	LADIES AND GENT' S TOILET(2'6"X7')	3.00	No.		
22	PAINTING WORK : Scraping down the existing lime wash/paint, completely filling the cracks with Plaster of Paris/ Biralta putty, apply one coat of primer and the 3 coats of plastic emulsion paint with 2 coats of Biralta/ JK wall Putty, Lustre / Enamel paint of approved shade/brand to the walls, ceiling, windows/doors as per instructions.	5315.82	Sq.ft.		
23	VENETIAN/VERTICAL BLINDS : Providing and fixing in position approved quality, colour design and pattern 'Vertical Venetian Blinds' of approx width not less than 100mm fixed in position on aluminium powder coated guide rail, and nylon ropes for moving them etc complete.	104.99	Sq.ft.		

24	WOODEN BOX IN CEILING FOR CASSETTE A.C. :- Providing and fixing Wooden box made up of 18mm th. BWP grade Plywood of approximate size 1200x1200 frame for cassette AC finished with 1.0 mm thk. Laminate. etc. complete As per drawing / design.	10.00	No.		
25	GYPSUM BOARD FALSE CEILING : Providing and fixing in position suspended gypsum false ceiling with G.I. suspension system and 12mm thk. Gypsum board duly finished with POP punning and 3 coats of plastic emulsion paint etc. complete.	4539.58	Sq.ft.		
26	MODULAR FALSE CEILING : Providing and fixing Ecophon/ "AMF-Star" or equivalent approved Regular type mineral ceiling Tiles Edge : - Microlook. GRIDS :- Silhouette 15mm.Black/White reveal grids system as per the manufacturers' specification of Mineral Fiber ceiling including suspension system fittings & frame work as per manufacture's specifications.	2528.00	Sq.ft.		
27	COLUMN/ WALL PANELLING :- Providing and fixing at site wooden panelling with 12mm thick BWP grade plywood of approved make boxing/frame work finished with 1.00mm laminate of desired shades as per drawing including frame work of approved quality second class teak wood . The cost shall includes applying 2 or more coats of Antitermite paint to internal surfaces, providing moulded beading etc. complete including all materials, hardware, labours, polishing etc complete As per drawing / design.	2356.13	Sq.ft.		
28	TRAINING ROOM TABLES (Size 3'3"x2'0"):- Providing and fixing tables of specified sizes to be made up of 18mm th. BWP grade plywood & 1.00mm thk. laminate finish etc. complete As per drawing / design.	1.00	No.		
29	P / S Swivel Chair (High Back) In MS frame covered with breathable Mesh in black for back & Lumber support, 12 mm Moulded ply for seat with PU on it. PU Adjustable arms, Chrome base, Head Rest, Synchro mech. & Gas Lift etc. complete. Methodex , Godrej ,	3.00	No.		

	Featherlite				
30	P / S Swivel Chair (Mid Back) In MS frame covered with breathable Mesh in black for back & Lumber support, 12 mm Moulded ply for seat with PU on it. PU Adjustable arms, Chrome base, Synchro mech. & Gas Lift etc. complete. Methodex , Godrej , Featherlite				
	Officer	60.00	No.		
	Visitor	20.00	No.		
31	Lunch room Chair (Non-revolving chair) Make Methodex , Godrej , Featherlite	17.00	No.		
32	P / S of Training Chairs. As per the image shown. Methodex , Godrej , Featherlite	56.00	No.		
33	SOFA :- Providing and placing sofa with wooden leg construction in 18mm th. BWP grade plywood 150mm thick rubber foam seat, wooden arms rest on wooden support with cushioned back, etc complete As per drawing / design. (Basis price of upholstery not less than @ Rs 500/- metre & foam density 50 to 80 etc.) etc. complete As per drawing / design.	8.00	Per Seat		
34	SOFA SIDE TABLE :- Providing and fixing tables of specified sizes to be made up of 18 mm thk. BWP grade plywood & 1.0mm thk. laminate finish etc. complete As per drawing / design.				
	2'0"X2'0"	3.00	No.		
	5'2"X2'0"	1.00	No.		
35	Centre Table :- Providing and placing Centre Table in rectangle shape made of 18 mm thk. BWP grade plywood and 1.0mm thick Laminates finish as per approved shade etc. complete As per drawing / design.				
	SIZE - 900X600 mm	1.00	No.		
36	ACRYLIC NOTICE PANEL (Back lit) :- Providing and fixing Acrylic sandwich Display board with Two 6mm th. Acrylic sheets fixed to the wall with 25mm Dia Stud including LED strip. The cost is inclusive of all materials, labour etc complete As per drawing / design.				
	size (6'x1'6")	3.00	No.		
37	SBI MONO(4'X6"X3')(BACK LIT)	1.00	No.		

38	BRANDING OVER GLASS	564.00	SQ.FT.		
39	BRANDING NEAR LIFT AND STAIRCASE	1.00	No.		
40	MOTIVATIONAL POSTER IN TRAINING AND MEETING ROOM	3.00	No.		
41	S.S.DUST BIN	35.00	No.		
42	COMPLAINT BOX	1.00	No.		
43	INAUGURATION PLATE WITH CURTAIN	1.00	No.		
44	CHEQUE DROP BOX	1.00	No.		
45	Rolling Shutter Boxing :- Providing and fixing at Rolling Shutter Wooden Boxing made by 18mm thick BWP grade plywood to be finished in 1.0 mm thk. Laminate, etc. complete As per drawing / design.	79.94	SQ.FT.		
46	P/f Foot Mat				
	Size 2400x1000	1.00	No.		
	Size 1000x600	1.00	No.		
47	MIRROR :- Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with wooden frame of approved make and shape with 12mm thick plywood backing, etc. complete As per drawing / design.	59.50	SQ.FT.		
48	MODULAR UNDER COUNTER STORAGE SYSTEM FOR PANTRY :- Modular counter storage system with marble partitions and Granite top with a base support of marble with ebco or equivalent make drawer channels hinges , 304 grad ss baskets italian/ hettich/ hafele or equivalent brand door knobs / handles under counter storage shutter made of 18mm thk. BWP grade plywood with 6mm thk.comm. ply backing all internal and outer side surfaces are finished with 1.0mm th. laminate complete As per drawing / design.	25.27	SQ.FT.		
47	WOODEN FLOORING IN TRAINING HALL	864.00	SQ.FT.		

	Providing and fixing wooden raised platform in training Hall with a base structure of wooden supports as per drawing and finished with Wooden Flooring. (AC4) thickness 1214x192x8mm made from High Density wood fiber Board with protective over lay of anti abrasive non fading U.V. resistance scratches resistant, Heat resistant surface including melamine impregnated decorative film have additional film that increase impact resistance surface hardness and indentation resistance, Panels are tongue & groove system fixed with poly-vinyl acetate glue and placed over PE sheet alkali resistant polyethylene film as a firm layer to protect the panel for moisture and second layer is hush factor 2mm thick specially engineered to absorb the noise and provides cushioning for walking comfort and take care of Small undulation of sub-floor. Colour & pattern with equivalent decorative wooden skirting of size 60mm fixed on paneling of wall by head less nails to cover expansion gap on edges and equivalent wooden profile used for connecting the Armstrong wooden flooring to adjoining sub floor etc. as approved by Architect.				
48	ARTIFICIAL GARDEN Providing and fixing artificial garden with bunches over a base of 12mm ply, Polyethylene material, waterproof as per Drawing, Design and instruction of Architect.	130.50	Sq.ft.		
49	WALL PAPER (RECEPTION AREA, GUARD BACK WALL)	84.00	Sq.ft.		
	TOTAL - A		Total		

* THE RATES QUOTED ABOVE ARE EXCLUSIVE OF TAXES.

Total(InWords)

Rupees_____

Seal & Signature of the Contractor.

LIST OF MATERIALS OF APPROVED MAKES/BRAND(FURNITURE, INTERIOR & ALLIED CIVIL WORKS)

1. Plastered walls and False ceiling etc. – Premium Quality Acrylic Emulsion Paints of Asian / Nerolac / ICI / Berger
2. Enamel Paint:- Asian / Nerolac / ICI / Berger
3. Float Glass – Saint Gobain / MODIGUARD / AIS
4. Aluminium sections INDAL / JINDAL / HINDALCO
5. Block board (BWP) shall be 19/25 mm thick of CENTURY / GREEN or equivalent
6. Ply wood (BWP) shall be of CENTURY / GREEN or equivalent
7. Screws shall be of NETTLEFOLD brand / (GKW) / STAG.
8. Adhesive : FEVICOL
9. Multipurpose locks shall be of GODREJ / DOORSET / EBCO.
10. Sliding fittings, drawer slides handles etc. shall be of Ebco.
11. Floor springs – DORMA CROWN / GODREJ / approved equivalent as per BOQ.
12. Door Closer – DORMA CROWN / GODREJ / approved equivalent as per BOQ.
13. Mortice lock handles – GODREJ, EFFICIENT GADGETS, DORMA / HETTICH
14. Teak wood – CP TEAK
15. Hard wood – Seasoned Wood as per specifications and relevant standards.
16. Handles for drawers and storages – Efficient Gadgets / Flora / Parmar / Godrej
17. Door locks - 2 Lever Mortice 65mm or as required – GODREJ / EFFICIENT GADGETS
18. For cupboards, Drawers – 6 Lever drawer / as desired –GODREJ / EFFICIENT
19. Laminate – CENTURY / FORMICA / Merino / Vir.
20. Gypsum board – SAINT GOBAIN or equivalent.
21. Suspended Ceiling-ARMSTRONG / SAINT GOBAIN approved equivalent
22. Vertical Blinds- Vista Levelor-Classic / MAC / approved equivalent

BOQ FOR ELECTRICAL WORK AT RAIPUR

	PART B - ELECTRICAL WORK				
S.No .	DESCRIPTION	Quantit y	Unit	Rate	Amoun d
	Internal wiring				
1	WIRING TO POINTS				
	Point wiring with 1100 V grade 3 nos. single core/Multi strand 1.5 sq.mm. (1 for phase, 1 (black colour) for common neutral by looping method and 1 (green colour) for common earth by looping method) PVC insulated flexible FRLS copper conductor cable (IS:694) through stove enameled rigid MS conduit pipe with accessories like bend / junction box in concealed manner on surface above false ceiling or concealed by chase cutting on wall from light & fan switch board to light, fan & 6A socket outlet on the same switch board or separately mounted switch board. The work includes supply and fixing of all materials as specified make modular type 6A switch for each light and fan point, 6A 2/3 pin shuttered socket outlet with switch, 3 plate ceiling rose / angle or batten holder etc. as required.The point Wiring Include Circuit Wiring From Main Db to Switch Board with 2x2.5 +1.5 Sqmm Copper wire through through stove enameled rigid MS conduit pipe (not more than two circuit in a conduit),maintaining the colour code.Circuite line for lighting switch board ,6Amps plug board are to be drawn from lighting DB to Lighting board & plug point board. Maximum 2Nos lighting board & 03 Nos.6Amps connected from one circuite.				
a)	Lighting point complete with modular type switch, plate, G.I. concealswitch box.				
i	Point - 1 Light point control by 01 switch.	25	Each		
ii	Point - 2 Light point control by 01 switch.	20	Each		
iii	Point - 3 Light point control by 01 switch.	30	Each		
iv	Point - 4 Light point control by 01 switch.	20	Each		

b)	Exhaust fan point same as item No. 1 complete with modular type switch plate & G.I. conceal box & 3 pin ceiling rose.	4	Each		
c)	6A 2/3-pin socket & 6A switch point on same switch board	25	Pts.		
d)	Call bell point same as above complete with modular type push switch, plate & G.I. conceal box with buzzer type bell.	4	Each		
e)	Wall fan point same as item No. 1 complete with modular type switch plate & G.I. conceal box & 3 pin ceiling rose with regulator.	15	Each		
f)	6A 2/3-pin socket & 6A switch point on separate switch board	61	Pts.		
2	Raw Socket Points Supply, laying & Installation of following Raw power switch socket points on skirting/ walls for Table Lamps/ General purpose use by using 3C X 2.5 Sq.mm copper conductor PVC FR sheathed black color flexible cable pulled through already laid floor raceways/ conduits and taken up to the position marked, using PVC rigid/ flexible conduits run concealed within walls/ partitions/ work stations etc, with concealed MS box flush to the surface, front Plate etc & hardware as required. (Not more than five socket points will be served by one circuit from Lighting DB) Rate is Inclusive of all Riser PVC/ Flexible conduits as required.				
a	16A socket & 16A switch point.	16	Pts.		
b	Supplying, providing, fixing complete table top 125mmx125mmx60mm aluminum super slim base box designed pop up box with positive earthing terminal having two 6/16A socket	2	Each		
	COMPUTER SOCKET POINT: - (thru UPS supply only)				

3	Computer socket outlet cluster point wiring with 1100 V grade 3 nos. single core (1 for earth, green color) 2.5 sq.mm. PVC insulated flexible FRLS copper conductor cable conforming to IS : 694 through suitable size rigid PVC.conduit (ISI mark embossed on conduit surface) and conduit accessories partly through concealed in wall, embedded in floor, partly on surface above false ceiling and partly through partition or through flexible conduit from CDB to computer socket outlet cluster as detailed below and upto connection of 2 nos. socket clusters in 1 (one) circuit connecting by looping method. The work includes supply and fixing of socket outlet clusters components (Legrand/North - west/Novar make) as detailed below.				
	Each computer socket outlet cluster comprising the following :				
	3 nos. : 6A 2/3 pin modular type shuttered socket				
	1nos. : 6A modular type controlling switch				
	1 no. : Front cover of suitable size				
	1 no. : Mounting box of suitable size				
	Note:- All socket outlet cluster is thru UPS DB. The Control switch is to be located in another board above table. The supply socket is located on another board below table.	70	Set		
	Sub Total Internal wiring				
	<i>CIRCUIT WIRING :</i>				
4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor, single core/Multi strand cable in surface/ recessed medium class PVC conduit				
a	2 X 2.5 sq. mm + 1 X 1.5 sq. mm earth wire in 20 mm PVC conduit	1100	Metre		
b	4 X 2.5 sq. mm + 1 X 1.5 sq. mm earth wire in 25 mm PVC conduit	550	Metre		
	Sub Total CIRCUIT wiring				
	Fitting and Fixtures				
	Supply and installation of light fittings/ fans/exhaust fans				

5	Supply and fixing of recessed mounting type LED light fixture, LED of 1 to 3 W each assembled on single MCPCB, having color temp 6500K & having 50000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy>80lm/W. LED driver, PF 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. PDC Aluminum white powder coated Housing with glare free diffused polycarbonate cover. White Polycarbonate Flat bezel ring and High transmittance PMMA diffuser & heavy duty spring latches for installing on to Modular / Gypsum False Ceilings complete with external Driver CCT – 6000k / 4000K / 3000K CRI > 80				
a	Make-Philips Lighting 15 W circular modle no.DN192BLED9S-4000 PSU WH S1/DN192BLED9S-6000 PSU WH S1 or equivalent	225	Each		
b	1 W high lighter	10	Each		
c)	2x2 LED Panel lighting 32W Square Shape.	8	Each		
6	Supply & Installation of single color (warm white light / any other approved color) water proof flexible LED strip light including required rated driver / power supply in multiples of 1 Rmtr 5 w/mt asapproved by the architect / consultant / client along with all necessary hardware & accessories, etc. complete as required	50	Meter		
7	Supply and Installing Wall fan copper wound motor including blades,down rod,condensor and all accessories but with out regulator complete	15	Each		
8	Supply and Installing 200mm sweep fresh air fan copper wound motor including FRP blades,louvers,condensor and all accessories complete	4	Each		
9	Supply and Installing Motion Sensor with all accessories complete. Make Philips or equivalent	5	Each		
	Sub Total Fitting and Fixtures				
	MEDIUM VOLTAGE SWITCHGEARS & DISTRIBUTION BOARDS				

9	Mains Switch Fuse Unit Supply, Installation & Commissioning 240A 3-Pole MCCB 36kA with R-Y-B LED indicating lamps and fuses Rotary Handle, Neutral Link etc, in Sheet Steel enclosure of L&T/ Siemens/ABB make with all fixing accessories like MS L-angle frame with Anchor Fastner, Nut & Bolt arrangement etc as required in meter room/ panel room & Cableextended box if required.	1	Nos.		
10	As Built Distribution Panels & Boards. Supply, Installation & Commissioning of following Main Distribution Panel as per specification enclosed. System: 415V AC, 3PH, 50Hz, Fault Level 50KA for 1-sec. Construction: Free Standing Floor/ Wall Mounting, Non-drawout & Compartmentalized. Fabrication: Base: 5 X 75mm Fabricated Channel Frame: 14 SWG Thick CRCA Sheet Steel. Covers/ Doors: 16 swg thick CRCA Sheet Steel. Degree Of Protection: IP-42. Painting: Two coats of Primer & finish with Epoxy paint. Based Paint Shade: External/ Internal: Siemens Gray 7032, Semi Glossy. Base Channel: Black. Cable Entry: Bottom/ Top 3mm Thick CRCA Sheet Steel Detachable Gland plate. Busbars: Electrolytic grade Cu Busbares supported on SMC supports. The Busbar system is suitable for 415V, 3PH, 50Hz with fault withstanding capacity of 50KA for 1s. Heat shrinkable PVC sleeves & color code for phase identification provided. Earth Busbar: 1 X 25 X 16mm Cu. Minimum Busbar Clearances: Phase to Phase: 25.4mm Phase to Neutral: 25.4mm Phase to Ground: 25.4mm Neutral to Ground: 19.4mm Live Part to Ground: 19.4mm Wiring: The wiring will be carried out with 650/1100V grade PVC insulated stranded copper conductor. Control Circuit: 1.5Smm C.T. Circuit: 2.5Smm Switch Fuse Unit/ MCB/MCCB: 32A = 6Smm, 63A = 16Smm, 125A = 35Smm, 250A = 40 X 5 Cu Bus - Bar				
	Main Distribution Panel Incomer:				
i)	1 no. of 240 A MCCB 3-Pole with 36KA Breaking				

	capacity with Rotary Handle.				
ii)	R-Y-B Phase LED type Signal Lamps Teknik, with 0.5A protection MCBs				
iii)	100 X 100mm Danger Notice Board in English & Hindi.				
iv)	Digital Voltmere & Ammeter of HPL, L&T, Mecor or equivalent with CT's Class 1.0, 15 VA, & required ratio.				
	Outgoing:				
i)	1 nos. of 160 A MCCB of 10 kA Breaking Capacity				
ii)	1 nos. of 63 A MCCB of 10 kA Breaking Capacity 1no of 63Amp SPN for UPS O/P.				
iii)	12 nos. of 32 A TPN MCBs of 10KA breaking capacity for Computer cluster and Power				
iii)	12nos.of 16Amp MCB SPN MCBs of 10KA breking capacity				
iv)	17nos.of 16Amp SPN for Lightings and PC				
iv)	Capacitors Siemens/ Mehar/ Asian make 20, 15, 10, 5, 2 & 1 KVAR 415 Volts 50 Hz. AC 3 Phase Delta connected Double Dielectric Metallised Polypropylene Capacitors for 6 stages with Discharge Resistors & series Inductor Coil.				
v)	6 nos. Capacitor duty Contractors for 6 nos. of stages with HRC fuses with base as backup fuses & 2A HRC fuses for contactor coil.				
vi)	6 nos. of LED type Red indicating lamps for ON stage indication				
vii)	Push type Red & Green switches for making stages ON/ OFF in Manual mode only. 1	1	Set		
	Distribution System.				

	Supply, Installation, Testing & Commissioning (S.I.T.C.) Of All Items described below should be Factory Manufactured & Tested & ISI marked. Proposed location & route should be as per the drawing. However, if any obstruction is encountered at site suitable modification may be made as per site condition. After completion of work the contractor must supply 3 copies of "As-Built" drawing of actual route & location of items . All UPS & Raw Power points to be Marked as U1,U2 -----& R.P.I, R.P.2 - etc on each work-Station/Desk etc. Similarly load/points connected on Each M.C.B. to be indicated with a chart pasted inside the cover of each Distribution Board. Insulation testing of Wiring with Meggar & Testing of E.L.C.B. with Test lamp should be carried out before charging system & Insulation test report as well as RCCB/RCBO test report to be submitted with the Bill. LOAD should be equally BALANCED on 3 PHASES. All D.B.'s and UPS + Raw power Points should have an earth wire Connection in their socket earth terminal.				
	Computer cluster				
11	S.I.T.C. of Factory Manufactured Single/ 3 Phase & Neutral Double Door Distribution board made out of 16 SWG sheet steel enclosure with cutouts for operating MCB/MCCB/RCCB etc. knobs & consisting of Phase, Neutral & E arth Busbars with tapped holes, phase barriers, & covers with removable plates on Top & bottom for Incoming & Outgoing Cables . D.B.'s shall be flush mounting type for both single & three phase.				
	S.I.T.C. of 3 phase 12 way(8+36) Double Door Distribution Board with following M.C.B./M.C.C.B./RCCB & cable end boxes at Input & Output.				
a	63 Amp Triple Pole & Neutral (TPN)- 1No as incommen				
b	1 nos. of 63 A SPN of 10 kA Breaking Capacity				
c	S.P. 16 Amp MCB -32 No for Computer cluster	1	Set		
	Light and Fan				

12	S.I.T.C. of Factory Manufactured Single/ 3 Phase & Neutral Double Door Distribution board made out of 16 SWG sheet steel enclosure with cutouts for operating MCB/MCCB/RCCB etc. knobs & consisting of Phase, Neutral & E arth Busbars with tapped holes, phase barriers, & covers with removable plates on Top & bottom for Incoming & Outgoing Cables . D.B.'s shall be flush mounting type for both single & three phase.				
	S.I.T.C. of 3 phase 8 way (8+24) Double Door Distribution Board with following M.C.B./M.C.C.B./RCCB & cable end boxes at Input & Output.				
a	40 Amp Triple Pole & Neutral (TPN)- 1No as incommen				
b	1 nos. of 40 A RCCB of 10 kA Breaking Capacity				
c	S.P. 6 Amp MCB -20 No for Light , Fan and raw socket point	2	Set		
	HVAC				
13	S.I.T.C. of Factory Manufactured Single/ 3 Phase & Neutral Double Door Distribution board made out of 16 SWG sheet steel enclosure with cutouts for operating MCB/MCCB/RCCB etc. knobs & consisting of Phase, Neutral & E arth Busbars with tapped holes, phase barriers, & covers with removable plates on Top & bottom for Incoming & Outgoing Cables . D.B.'s shall be flush mounting type for both single & three phase.				
	S.I.T.C. of 3 phase 12 way (8+ 24) Double Door Distribution Board with following M.C.B./M.C.C.B./RCCB & cable end boxes at Input & Output.				
a	160 Amp Triple Pole & Neutral (TPN)- 1No as incommen				
b	4 pole 160 Amps, RCCB(In accordance with IS 12640-1 & IEC 61008-1) 240/415, 50Hz with 10kA short circuit withstand capacity 30 mA sensitivity				
c	TPN. 32 Amp MCB -10 Nos				
d	S.P. 16 Amp MCB -11 No	1	Set		
	Power				

14	S.I.T.C. of Factory Manufactured Single/ 3 Phase & Neutral Double Door Distribution board made out of 16 SWG sheet steel enclosure with cutouts for operating MCB/MCCB/RCCB etc. knobs & consisting of Phase, Neutral & E arth Busbars with tapped holes, phase barriers, & covers with removable plates on Top & bottom for Incoming & Outgoing Cables . D.B.'s shall be flush mounting type for both single & three phase.				
	S.I.T.C. of 3 phase 4 way (4+12) Double Door Distribution Board with following M.C.B./M.C.C.B./RCCB & cable end boxes at Input & Output.				
a	32 Amp Triple Pole & Neutral (TPN)- 2No as incommen				
b	1 nos. of 40A RCCB of 10 kA Breaking Capacity				
c	S.P. 16 Amp MCB -16 No	1	Set		
	Distribution cabs				
15	Electrical Work: S.I.T.C. of I.S.I, marked 1.1 KV grade PVC armoured Aluminum cable to be laid in Underground trench/On wall/above false ceiling etc complete with all conduit accessories like GI saddle at every 600mm & suitable lugs or other connecting arrangement complete as directed by client				
a	From Pole to meter and meter to floor panel				
	4 C x185 Sq.mm	50	RM		
16	Electrical Work: S.I.T.C. of I.S.I, marked 1.1 KV grade PVC unarmoured Aluminum cable to be laid in Underground trench/On wall/above false ceiling etc complete with all conduit accessories like GI saddle at every 600mm & suitable lugs or other connecting arrangement complete as directed by client				
a	From floor panel To UPS for computer cluster				
	4 C x 16 Sq.mm copper cable	20	RM		
b	From floor panel To Light fan DB through or direct UPS				
	4 C x 10 Sq.mm copper cable	20	RM		
c	From floor panel To Raw 6A socket DB through or direct UPS				
	4 C x10 Sq.mm copper cable(DB panel to Indoor)	20	RM		

d	From floor panel To Power 16A socket DB through or direct UPS				
	4 C x 4Sq.mm copper cable	200	RM		
f	From floor panel To HVAC power DB				
	4 C x 6Sq.mm (DB to Outdoor)	300	RM		
	Sub Total MEDIUM VOLTAGE SWITCHGEARS & DISTRIBUTION BOARDS				
	Earthing				
17	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. (but without charcoal/ coke and salt) as required.	2	Set		
18	Providing and fixing 25 mm X 5 mm G.I. strip from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	100	Metre		
	Sub Total Earthing				
	GRAND TOTAL				

* THE RATES QUOTED ABOVE ARE EXCLUSIVE OF TAXES.

Total(InWords)

Rupees_____

Seal & Signature of the Contractor.

Approved Make

1	Switch with Box	a	Anchor	
		b	L&T	
		c	Twinkle	
		d	Recold	
		e	Legrand	
2	MCB, MCCB, TPA etc.	a	L&T	
		b	Hevals	
3	Light Fitting	a	Crompton	
		b	Bajaj	
		c	Wipro	
		d	Philips	
4	UPS	a	Microtec	
		b	Limunious Or equivalent	
5	Wire/Cable	a	Anchor	
		b	L&T	
		c	Falonx	
		d	National	
		e	RR Kaabal	
		f	Polycab	
6	Switch gear	a	L&T	
		b	Siemero	
		c	Crompton	
7	MS Electrical Conduit	a	AKG	
		b	BEC	
8	PVC Electrical Conduit	a	Kriti	
		b	Finolex	
		c	AKG	
		d	Polypack	
9	Ceiling Fan/Fresh air fan	a	Havells	
		b	Bajaj	
		c	Usha	
		d	Orient	
		e	Polar	
		f	Crompton Greaves	

BOQ FOR FIRE ALARM SYSTEM

	PART C - FIRE ALARM SYSTEM				
S.No.	DESCRIPTION	Quantity	Unit	Rate	Amount
1	Supply and installation, testing and commissioing of ionisation type smoke detectors to be mounted below false ceiling	25	each		
2	Supply, installation, testing and commissioing of response indicator	20	each		
3	Supply, installation, testing and commissioing of manual call point with break glass arrangement	3	each		
4	Supply, installation and termination of 2x1.5 Sqmm twisted FRLS armoured copper conductor cable approved by ETDC/TAC to be clamped neatly on ceiling/ wall/ partitions etc with GI clamps	900	mtr		
5	Supply, installation, testing and commissioing of heat detector				
	Rate of rise cum Fixed temperature	4	each		
6	Supply, installation, testing and commissioing of dual tone electronic hooter	1	each		
7	Supply, installation, testing and commissioing of 4-zone wall mounting type conventional fire alarm panel with battery unit, charging unit and other accessories	1	each		
8	Supply, installation and testing and commissioning of Auto Dialler system for the Fire Alarm System with tone and pulse switch 16X2 LCD display to send the pre recorded message of 40 to 60 Seconds	1	each		
9	Supply, installation and testing and commissioning of 2Kg capacity ABC type fire extinguishers	4	each		
10	Supply, installation and testing and commissioning of 4.5Kg capacity co2 type fire extinguishers	2	each		
	Total Value				

* THE RATES QUOTED ABOVE ARE EXCLUSIVE OF TAXES.

Total(InWords)

Rupees _____

Seal & Signature of the Contractor.

Approved Make:

1	Fire Extinguisher	a	Minimax
		b	Ceasefire
2	Fire, Smoke Ditector, sector pannel etc	a	L&T
		b	Philips
		c	Agni
		d	Minimax
		e	Electroquip

BOQ FOR AIR CONDITIONING WORK

	PART D -AIR CONDITIONING WORK				
S.No.	DESCRIPTION	Quantity	Unit	Rate	Amount
1)	DX Cassette AC units				
i	Supply of a 3.8 Ton Ceiling mounted "Cassette" Air-Conditioner by cutting false ceiling & comprising of Indoor & Outdoor units. The Indoor unit comprising multi-row DX Copper cooling coil, Drier, expansion valve/device , air blower driven by motor with mounting accessories. Outdoor unit will comprise the Rotary/Scroll compressor, Copper condenser coil & fan, Cordless remote controller etc. including Refrigerant gas charging , water drain system etc. Indoor Evaporator & Outdoor Condenser Coils should be of COPPER & Not Aluminum.	8	Nos.		
ii	Supply of a 3.5 Ton Ceiling mounted "Cassette" Air-Conditioner by cutting false ceiling & comprising of Indoor & Outdoor units. The Indoor unit comprising multi-row DX Copper cooling coil, Drier, expansion valve/device , air blower driven by motor with mounting accessories. Outdoor unit will comprise the Rotary/Scroll compressor, Copper condenser coil & fan, Cordless remote controller etc. including Refrigerant gas charging , water drain system etc. Indoor Evaporator & Outdoor Condenser Coils should be of COPPER & Not Aluminum.	2	Nos.		
2)	DX Split AC units				

i	Supply of DX type 1.0 TR split A/C (2 Star rated) with Wall mounted Capacity -12000 BTU/hr Power supply-230 V/single phase/50 Hz. These units shall have suitable draining arrangement and wireless remote including stabiliser, Wall mounted Stand for operating machines of following capacities:-	3	Nos.		
ii	Supply of DX type 1.5 TR split A/C (2 Star rated) with Wall mounted Capacity -17750 BTU/hr Power supply-230 V/single phase/50 Hz. These units shall have suitable draining arrangement and wireless remote including stabiliser, Wall mounted Stand for operating machines of following capacities:-	2	Nos.		
iii	Supply of DX type 1.8 TR split A/C (4 Star rated) with Wall mounted Capacity -21800 BTU/hr Power supply-230 V/single phase/50 Hz. These units shall have suitable draining arrangement and wireless remote including stabiliser, Wall mounted Stand for operating machines of following capacities:-	1	Nos.		
3)	Indoor Units				
	Installation, testing and commissioning of Indoor units address setting and capacity as mentioned below. multispeed motor, coil section with DX coil, outer cabinet, drain pan, drain water lift-up mechanism insulation, pipe connections, fresh air intake connector, drain pumps for cassettes, duct type & hi Wall Units of various capacities as per specifications and drawings.				
a)	DX TYPE CASSETTE AC				
i	3.8 TR	8	Nos.		
ii	3.5 TR	2	Nos.		
b)	DX TYPE SPLIT AC				
i	1.0 TR	3	Nos.		

ii	1.5 TR	2	Nos.		
iii	1.8 TR	1	Nos.		
4)	Refrigerant Piping				
	Supply, Insulation, testing and commissioning of interconnecting refrigerant pipe work with closed cell elastomeric nitrile tubular insulation between each set of indoor & outdoor units as per specifications, all piping inside the room shall be properly supported with MS hanger.				
i	For Cassette AC Piping	130	RMT		
ii	For Split AC Piping	65	RMT		
5)	FABRICATED STEEL				
	Supply & fixing of MS angle/ channel/ flat etc with require welding, one coat of red oxide and two coat black paint etc as required. (If required)	100	Kg		
6)	Drain Piping				
	Providing and fixing of PVC drain water piping complete with fittings, support as per specification and insulated with 6 mm thick closed cell elastomeric nitrile rubber insulation.				
i	20 mm dia ID	30	RMT		
ii	25 mm dia ID	60	RMT		
iii	32 mm dia ID	30	RMT		
iv	40 mm dia ID	20	RMT		
7)	Control Cabling				
	Supply and laying ,testing & commissioning of following sizes of Copper conductor control cables with tray including fixing clamps & effecting proper connections to equipment etc.complete as required.				
i	3C x 1.5 Sq. mm	150	RMT		
ii	3C x 2.5 Sq. mm	230	RMT		
8)	Stand for Outdoor Units				
i	Stand for Cassette AC Outdoor Units	16	Nos.		
9)	Additional Refrigerant charge of Refrigerant GAS (If Required)	1	Kg		
	Total				

* THE RATES QUOTED ABOVE ARE EXCLUSIVE OF TAXES.

Total(InWords)

Rupees_____

Seal & Signature of the Contractor.

Note:-

1. Vendor to supply ACs of following make: Voltas/Daikin /O General.
2. Common drain pipes of Cassette / Split A.C.'s be terminated in any toilet nahn traps OR else be terminated from external wall up to ground.
3. Pl. encloses technical brochure of quoted A.C.'s.
4. As built layout drawing of Refrigerant & Drain Piping has to be attached with Final Bill.

BOQ FOR CCTV CAMERAS

	PART E - CCTV				
S.No.	DESCRIPTION	Quantity	Unit	Rate	Amount
	Supply and Installation For CCTV camera				
i)	720P HD Indoor IR Turret Night Vision Dome Camera (White) reviews, ratings, features, specifications and browse more ... Day and Night - IR cut filter with auto switch, video frame rate - 720p at 25fps/720p at 30fps, HD video output - 1 analogue HD output, synchronization. Equivalent make Hikvision,CP Plus,Panasonic and samsung	8	Each		
ii)	2MP IR Bullet Camera. • 2 Megapixel (1600 x 1200) High Resolution. • HD720p Real-time Video Recording. Image sensor. 1/3" progressive scan CMOS. Video compression. H.264 / MPEG4 / MJPEG. Max. image resolution. Network storage. NAS. Operating conditions. -10°C ~ 60°C (14°F ~ 140°F) humidity 90% or less (non-condensing).Equivalent Make Hikvision,CP Plus,Panasonic and Samsung	1	Each		
iii)	TurboHD 8-Channel 1080p DVR (without HDD) features Manage and Record 8 Cameras, 1920 x 1080 at 30 fps Recording/Playback. Review Hikvision Digital Video Recorders (DVRs), Video ... Supports manual video quality.With Inbuilt 2TB HDD for storage the recording data.Equivalent Make LG,samsung,CP Plus and Hikvision.	1	Each		
iv)	Supply and Installation For cabling and camara connectors.	900	Metre		
v)	Interconnectors and SMPS for DVR and Camera	1	Each		
vi)	Providing & Fixing of 22" LED HD TV with wall mount bracket. Make LG/ Sony	1	Each		
	TOTAL				

* THE RATES QUOTED ABOVE ARE EXCLUSIVE OF TAXES.

Total(InWords)

Rupees_____

Seal & Signature of the Contractor.

Approved Make

1	CCTV	a	Honeywell
		b	Hikvision
			Siemens
			Matrix

BOQ FOR BIOMETRIC SYSTEM

	PART F -BIOMETRIC SYSTEM				
S.No.	DESCRIPTION	Quantity	Unit	Rate	Amount
i)	Supply & Installation Finger Print Time Attendance Machine:	1	Each		
	· User Capacity 2000(Finger/Password/card),				
	· LCD Display 2.4”TFT Color Screen,				
	· Transaction Log capacity- 1,20,000 ,				
	· Wiegand 26 - bit 1x In,1x Out,				
	· Power Source 12vDC/0.3A,				
	· Control Electronic Lock Control Electronic Lock,				
	· FRR (False Rejection Rate) <1%				
	· FAR (False Acceptance Rate) <0.0001%				
	· Card Reader 125 Khz RIFD Built in Mifare 13.56Mhz(Optional)				
	· Wiegand Interface 26 bit: 1 x In,1 x out, Professional				
	· Access Control Yes, Dimensions(mm) 190 x 80 x 44,				
ii)	Supply & Installation of Software Feature:	1	Each		
	· Support Database: MSDE /MS/SQL Server				
	· Single T/A Software for multiple Companies and set different rules for them.				
	· Multi User environment with selected rights allocation.				
	· Various type of leave application entry forms with balance and other rules checking.				
	· Built In daily, Monthly, Yearly, and leave reports.				
	· Built-in Basic payroll software for generating salary slip.				
	· Report generated in Rich Text Format, MS word MS Excel More than 250 Reports				
	TOTAL				

* THE RATES QUOTED ABOVE ARE EXCLUSIVE OF TAXES.

Total(InWords)

Rupees_____

Seal & Signature of the Contractor.

Approved Make

1	BIOMETRIC	a	Matrix
		b	Idcube