

## **SBI LIFE INSURANCE CO. LTD.**

### **Notice Inviting Tenders**

SBI Life invites sealed tenders from the contractors for the Interior & Allied Works for Bilaspur Branch. Details of the tender are as under:

1. Name of work : Interior & Allied Works for Bilaspur Branch
2. Time allowed for completion : 50 days from the date of work order.
- 3 Last date and time of receipt of tender : Till 16.00 hrs. on 20<sup>th</sup> November,2017
- 4 Tender to be addressed to : **THE ADVISOR (ADMIN. UTILITY)  
SBI LIFE INSURANCE COMPANY LTD,  
2<sup>ND</sup> 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 16.00 hrs. 20<sup>th</sup> November,2017
- 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.

For SBI Life Insurance Co. Ltd.

		<b>ABSTRACT SHEET</b>	
	<b>S.NO</b>	<b>WORK</b>	<b>AMOUNT</b>
	<b>1</b>	<b>TOTAL FOR INTERIOR &amp; CIVIL WORKS</b>	
	<b>2</b>	<b>TOTAL FOR CHAIR WORKS</b>	
	<b>3</b>	<b>TOTAL FOR ELECTRICAL WORKS</b>	
	<b>4</b>	<b>TOTAL FOR AIR CONDITIONING WORKS</b>	
		<b>GRAND TOTAL</b>	

<b><u>ESTIMATE FOR INTERIOR WORKS AT SBI LIFE RAMA PORT VYAPAR VIHAR BILASPUR</u></b>						
<b>S.No</b>	<b>sample no.</b>	<b>ITEM AND SPECIFICATION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
		<b><u>INTERIOR WORKS</u></b>				
1	1	<b><u>MAIN ENTRANCE DOOR, ASM &amp; DSM CABIN DOOR</u></b>				
		<p>P/F New Entrance Glass Door made out of 2nd class BTC/ Teak wood 4" x 2" sections with Top, Bottom and Vertical members with 8 mm thick Glass, BTC. moulding, complete with approved matching Laminate Colour Zinc polish, 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 BTC Frame. Rest as per design, instructions. Approx. Size : 3'-6"x 7'-0".</p> <p>The Rate Shall be inclusive of side 12mm. Thk. Fixed glass with 4" x 2" BTC Top &amp; Bottom sections as mentioned above.</p>	232.00	Sqft		
2	2	<b><u>LINEAR / RUNNING WORK STATION:</u></b>				

		P/F linear / running counters having a size of 4'-0"X2' 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).	8.66	Rft		
3	2b	<b>LINEAR / RUNNING COUNTER FOR WORK STATION :</b>				
		P/F linear / running counters same as Item No. 2 above but without 12mm. Thk. Front glass & Table Front Apron .Rate Shall be inclusive of Divider in 12mm.thk. glass 1'-10"L.x 1'-6"ht.on table top between Two work station with diamond edge polish fixed with S.S."D" brackets. (Please check the Counter Length size as per layout to fit site condition).	81.50	Rft		
4	3	<b>LINEAR / RUNNING COUNTER FOR IA BAY :</b>				

		P/F linear /Running counters same as above Item No 2 but without 12mm. Thk. Glass divider , Key Board drawer & drawer unit. Rate Shall be Inclusive of 2.5"d.x 6"ht. Hollow Patta / Band above Table top for Electrical / Data Switch sockets. (Please check the Counter Length size as per layout to fit site condition).	22.41	Rft		
5	a	P/F Running Dining ledge of 1'-4"/1'-6" in width X2'-6"ht. in 25 mm thk. Exterior Grade Block Board of approved make for Ledge top and Vertical side supports in 3'-0"/4'-0" interval . The side & Top finish with approved colour Laminate for all exposed surfaced .(Please check the Ledge Length sizes per layout to fit the site condition).	33.75	Rft		
6	4a	<b>TABLE / WORK STATION WITH CREDENZA WITHOUT TABLE FRONT APPRON :</b>				
		P/F Office Table having a size of 4'-6"X2'-3"X2'-6" in 25mm thk. Exterior Grade Block Board of approved make for table top and sides. 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). The top length of table & side credenza will be measured	14.0	NOS		
7	5	<b><u>ZAM,&amp; DSM TABLE + SIDE CREDENZA with 0.8mm inside lamination</u></b>				
		<b>CABIN TABLE WITH CREDENZA :</b>				

		P/F Cabin Table having a size of 6'-0"X2'-6"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 4'-0"X1'-6"X2'-6"ht. in 19 mm BWP ply with drawers & openable shutters, a back unit having a size of 8'-3"X 1'-6"X 2'-6"ht. in 19 mm BWP ply with drawers & openable shutters, a drawer unit of size 1'-3"X1'-8"X2'-5" in 19 mm BWP ply with three drawers as per the drawing, finishing in 1 mm. Thk. laminate of approved make and shade / design etc. (Please check the Side credenza size as per layout to fit site condition).complete.	2.0	Nos.		
8	6	<b><u>HD-R, &amp; AM</u></b>				
		<b>CABIN TABLE WITH CREDENZA :</b>				
		P/F Cabin Table having a size of 5'-6"X2'-4"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, a back unit having a size of 9'-0"X 1'-6"X 2'-6"ht. in 19 mm BWP ply with drawers & openable shutters ,a drawer unit of size 1'-3"X1'-8"X2'-5" in 19 mm BWP ply with three drawers as per the drawing, finishing in 1 mm thk laminate of approved make and shade / design etc. complete.	3.0	Nos.		

		(Please check the Side credenza size as per layout to fit site condition).				
9	6a	<b>MEETING/ DISCUSSION RM. TABLE: ( 5 Seater)</b>				
		P/S 4'-0"dia table in 12 mm thk. Toughened glass in chamfer edge glass with diamond edge polish top placed on a base / pedestal made out of 12/19 mm BWP Ply boxes as per the drawing etc. finished with laminate complete	1.0	Nos.		
10		<b>RECEPTION TABLE</b>				
		P/F Reception Table having a size of 4'-6"X2'-3"X2'-6" in 25mm thk. Exterior Grade Block Board of approved make for table top and sides 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).	1.0	Nos.		
11	7	<b>LOW HEIGHT PARTITION in BWP Ply &amp; Laminate.</b>				

		<p>P/F Low ht. Partition 4'0" high made out of 1.5mm thickness 50 mm x 50 mm Alum. 16 gauge Framing at 60 cm C to C horizontally &amp; 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 12.0mm.Thk. BWP ply of approved make finished in 1 mm thk laminate of approved make &amp; shade. The Partition with Partly 10 mm thk clear float glass with four side BTC mouldings. The partition top shall be provided with 80 mm wide x 12mm thick moulding patty in 2nd class BTC with Zink Polish matching Laminate colour. 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 &amp; outlets as per design/instructions.</p>	1055	Sqft		
12	9	<b>PARTLY GLAZED PARTLY PANELLED FULL HT. PARTITION / SOLID PARTITION</b>				



		<p>P/ F. Full height partly glazed partly panelled Partition made out of 2" square (50 x 50mm) aluminum pipe 16 gauge (1.5mm) thickness, both ways, at maximum 2' c/c, 12 mm thk BWP ply on both sides, finished in laminate of (Measurement floor to false ceiling height) approved make &amp; 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 provision of doors/ Glazed Doors as per the drawings etc. complete. <b>Note:</b> For the measurements of Partitions, area up to the false ceiling height only shall be considered.</p>	1660	Sqft		
13		<b>FULL HEIGHT SOLID PARTITION IN CEMENT BOARD FOR UPS ROOM (Fire proof)</b>				
		<p>P/ F. Full height solid Partition made out of 2" square (50 x 50mm) aluminum pipe 16 gauge (1.5mm) thickness, both ways, at maximum 2' c/c, with 12.0 thick cement board (Bison or EQ) on both sides, of aluminium frame (Measurement floor to false ceiling height) approved make &amp; shade al pipes etc to accommodate switch / socket boxes, conduit pipes etc, including provision of doors/ Glazed Doors as per the drawings etc. complete. <b>Note:</b> For the measurements of Partitions, area up to the false ceiling height only shall be considered.</p>	466.00	Sqft		
14	11	<b>FULL HEIGHT STORAGE ( 2.13 m HIGH X0.45 m DEEP)</b>				

		<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 &amp; with laminate for all exposed surface &amp; 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>	325.00	Sqft		
15	12	<b>LOW HEIGHT STORAGE (1.20 m HIGH X .45 m DEEP)</b>				

		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, openable shutters with hinges as recommended & 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, Please note that all Internal & External Surface finished with approved colour Laminate , Rate as per design/instructions.	52.00	Sqft		
16	a	<b>WALL HUNG STORAGE (0.75 m HIGH X .33 m DEEP)</b>				
		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.	100.00	Sqft		

17	b	<b>CREDENZA UNIT / STORAGE (0.75 m HIGH X .45 m DEEP)</b>				
		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.	106.00	Sqft		
18	13	<b>MAGNETIC WHITE BOARD :</b>				
		ABSTRACT SHEET	2.0	NOS		
19	14	<b>SOFT BOARD PANELING :</b>				
		P/F Soft Board panelling (3'-0"X4'-0") made out of 12mm thick Soft Board covered with approved colour felt/cloth (Rate Rs. 350/- ) on 6 mm. Thk. BWP Grade ply backing.	4.0	NOS		
20		<b>ACRYLIC DISPLAY BOARD</b>				
		Providing and fixing at site Acrylic notice/ Display board made up of two layers of 4.0mm plain acrylic sheets with polished edges, and blue coloured vinyle, to be sandwiched between the two acrylic sheet, the notice board is to be fixed to the wall/ partition with help of 2" SS studs, the cost shall include all labour, materials, etc complete.	32.0	sqft		
21	15	<b>FLUSH DOOR WITH FRAME :</b>				

		P/F New 2nd class BTC/ Teak wood Frame of 100mm x 50 mm with 38 mm thick Ready made 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'-3"x7'-0".	21.00	Sqft		
22	16	<b>PAINTING WORK :</b>				
		Scraping down the existing lime wash/paint completely filling the cracks with Plaster of Paris/palti, apply one coat of primer and the 3 coats of plastic emulsion paint Lustre / Enamel paint of approved shade/brand to the walls, ceiling, windows/doors as per instructions.	2920	Sqft		
23	17	<b>VENETIAN/VERTICAL BLINDS :</b>				
		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 aluminum powder coated guide rail, and nylon ropes for moving them etc complete.	200.00	Sqft		
24		<b>BLACK OUT ROLLER BLINDS :</b>				
		Providing and fixing in position approved quality, Blackout roller synthetic fixed in position including all labour, material etc complete.	175.00	Sqft		
25	19	<b>GYP SUM BOARD FALSE CEILING :</b>				
		Providing and fixing in position suspended 12.0mm gypsum board 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.	2550.0	Sqft		

26		<b><u>WALL &amp; COLUMN PANELING WITH LAMINATED FINISH</u></b>				
		Providing and fixing at site wall paneling with IInd class teak wood 2" x 1.25" battens to be fixed over the wall/column at every 300 c/c vertically & 600-900 c/c horizontally with 8.0mm BWP Grade ply finished with 1.0mm laminated finish all exposed edges, corners are to be fixed with 1st class teak wood beading & finished with Mealamine polish. The cost shall include all materials, labour etc complete.	1070	Sqft		
27		<b><u>ARM STRONG CEILING</u></b>				
		Providing and fixing of false ceiling at all heights of 600mmx600mmx12mm armstrong mineral fiber ceiling tiles of type IBIZA RH-90 laid on armstrong prelude XL exposed grid systems with 9mm wide T Section flanges colour white. The frame work comprise of main runner spaced at 1200mm centers securely fixed to the structural soffit approved hangers at 1200mm maximum centers. Hangers (GI wire) to be fixed by approved roof plug and screws etc.	2090.0	sqft		
		The last hanger at the end of each main runner should not be greater than 450mm from the adjacent wall. flush fitting 1200mm along cross tees (with double stitching) to be interlocked between main runners at 600mm c/ c to form 1200x600mm modules. Cut cross tees longer than 600mm to be supported independently. 600mmx600mm modules 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 450mm maximum centers. including all materials, labour etc complete.				
28		<b>FRONT SHUTTER BOXING</b>				
		Providing & Fixing at site Front top cover over the Rolling shutter to be made up of 19mm BWP Ply and finished with 3.0mm thick ACP finish on all sides a to cover the Rolling shutter hood in front the similar specifications shall be done below the frame to act as false ceiling	482	Sqft		
29		<b><u>SOFA/ SETTY WITHOUT HANDLE</u></b>				
		Providing at site fully covered sofa seats of size 600x600x750mm ht with back made up of 19 mm thick Commercial ply (12" high) & with 12mm ply at base with 4" high density foam and shall have 8mm ply at back with 3" foam to be fixed with 0.5" U-foam lining to give a proper shape. Individual seats are to be covered with approved SHADE LEATHERITE The front shall have 1.0mm laminated finish over the exposed ply surface and 2" skirting The cost shall include all materials, labour etc complete.	11	SEATS		
30		<b><u>DOOR CLOSERS</u></b>				
		Providing & Fixing Hydraulic Door Closers to Door Shutter with Frames using necessary Screws, Nuts & Bolts etc. complete.	12.0	NOS		
31		<b><u>FLOOR MATT</u></b>				
		Providing & fixing at site Synthetic "Grass type" door mat of size 2'-6" x 1'-6" and approved shade to be fixed at the Main entrance of the Bank, all labour, materials, etc complete.	30.0	sqft		
32		<b><u>ITCHING FILM</u></b>				

		Providing and fixing at site approved design & pattern of etching film to be 3m 7725--325 Pressure sensitive film for permanent graphic fixed at site over the glazed area as per the given design & drawing including all materials, wastage etc complete.	486.0	sqft		
33		<b><u>SUN FILM</u></b>				
		Providing and fixing at site Reflective SUN FILM for exterior glasses with approved shade to be fixed on existing window glasses from inside including all materials, labour etc complete.	262	sqft		
		<b>TOTAL AMOUNT FOR INTERIOR &amp; CIVIL WORKS</b>				
		<b><u>CHAIRS</u></b>				
1	21	<b><u>P / S Swivel Chair (High Back)</u></b>				
		In MS frame covered with breathable Mesh in black for back & Lumber support, 12 mm PU Adjustable arms, Chrome base, Head Rest, Synchro mech. & Gas Lift etc. complete. Methodex , Godrej , Featherlite				
			2	Each		
2	22	<b>STAFF REVOLVING CHAIR</b>				
		<b>P / S Swivel Chair (Mid Back)-</b> In MS frame covered with breathable Mesh in black for back & Lumber support, 12 mm PU Adjustable arms, Chrome base, Synchro mech. & Gas Lift etc. complete. Methodex , Godrej , Featherlite	74	Each		
3	23	<b>P / S of Three Seater Sofa (Airport type)</b>				
		As per the image shown.				
		Methodex , Godrej , Featherlite	1	Each		
4	24	<b>TRAINNING/VISITOR HALL CHAIR</b>				
		<b>P / S of Training Chairs.</b> With Flap desk, As per the image shown.	40	Each		
		Methodex , Godrej , Featherlite				



5	25	<b>DINNING ROOM CHAIR(NON REVOLVING CHAIR)</b>	10	Each		
		As per the image shown.				
		Methodex , Godrej , Featherlite				
		<b>TOTAL FOR CHAIRS</b>				

\* 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

## BOQ for the Electric Work of Bilaspur Branch

		<b><u>ELECTRICAL WORKS</u></b>				
		<b><u>SUBHEAD I</u></b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
		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.1, 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.				
		<b><u>PANELS AND D.B.'s</u></b>				
1	1	<b>MAIN BOARD</b>				
		<b>S.I.T.C. of Factory Manufactured Single/ 3 Phase &amp; Neutral Double Door Distribution board made out of 16 SWG sheet steel enclosure with cutouts for operating MCB/MCCB/RCCB etc. knobs &amp; consisting of Phase, Neutral &amp; E arth Busbars with tapped holes , phase barriers, &amp; covers with removable plates on Top &amp; bottom for Incoming &amp; Outgoing Cables . D.B.'s shall be flush mounting type for both single &amp; three phase.</b>				

		<b>S.I.T.C. of 3 phase 8 Way Double Door Vertical Distribution Board with following M.C.B./M.C.C.B./RCCB &amp; cable end boxes at Input &amp; Output.</b>				
		<b>INCOMER</b>				
		4 POLE 160 Amp MCCB- 1 Nos				
		<b>OUTGOINGS</b>				
		200 Amp Al Bus Bar				
		4 POLE 100 Amp MCCB- 1 Nos for ac				
		4 POLE 100 Amp MCCB- 1 Nos for ups				
		Indicator 3 nos				
		63 AMP MCB 2 Nos for EDB/SPARE				
		32 amp mcb for Glow sign board				
		<b>SET AS ABOVE</b>	1	Nos		
2	1 b	<b>LIGHT DISTRIBUTION BOARD</b>				
		Supply, installation, testing and commissioning of 3 Phase 6 way Single door D.B. with Four pole 30Milliamp & 40 Amp R.C.C.B. as Incomer -1 No 6 Amp S.P. Amp M.C.B. -10 Nos with all wiring connections. 6 Amp Spare MCB - 2 No. Blanking Plates;	2.00	Nos		
3		<b>d.. U.P.S. D.B. : ( INPUT)</b>				
		S.I.T.C. of 3 phase 6 way Horizontal Single door D.B. with 4 Pole 100 Milliamp & 63 Amp R.C.C.B. as Incomer in MS BOX.	1.00	Nos		
		<b>SET AS ABOVE</b>				
4		<b>d.. U.P.S. D.B. : ( OUPUT)</b>				
		S.I.T.C. of 3 phase 6 way Horizontal Single door D.B. with 4 Pole 100 Milliamp & 63 Amp R.C.C.B. as Incomer-- 2 Nos 40 Amp RCCB as outgoings for UPSDB	1.00	Nos		
		<b>SET AS ABOVE</b>				
5	1 d	<b>d.. U.P.S. D.B. :</b>				

		S.I.T.C. of 3 phase 8 way Horizontal Single door D.B. with 4 Pole 100 Milliamp & 40 Amp R.C.C.B. as Incomer-- 1 No and 6 Amp S.P. Amp M.C.B. - 24 Nos with all wiring connections. And 6 Amp Spare MCB 1, Blanking Plates - ( 2 UPS pts to be looped on one MCB. In exceptional case 3 Nos on one ckt. )	2	Nos		
6		<b><u>AC DSITRIBUTION BOARD</u></b>				
		Providing and fixing at site AC distribution board Load line DB comprising of the following items in three way TPNDDB				
		<b>INCOMER</b>				
		1 Nos- 100Amp MCCB				
		<b>OUTGOINGS</b>				
		7 Nos 40 Amp MCB				
		6 Nos 32 Amp SPMCB				
		<b>SET AS ABOVE</b>	1.00	Nos		
		<b>POINT WIRING :</b>				
7	3	<b>Light Point/Raw Power Point/UPS Point/Fan Point wirings</b>				
		S.I.T.C. of I.S.I. marked 1.1 KV grade multi-strand F.R.L.S. Copper P.V.C. wires in 19/25 mm Medium grade I.S.I. marked PVC pipes to be laid in Underground trench/On wall/above false ceiling/Through Modular Furniture slots etc complete with all conduit accessories like bends, tees, Junction boxes with necessary fixing hardware etc. including re-surfacing of the floor/wall etc. wherever necessary with Resurfacing material. <b>Point wiring for Lights, fans, exhaust fans, 6Amps dependant socket outlets etc. using S.&amp; I. of 3X 1.5 Sq.mm. Flexible copper FRLS multi-strand PVC copper wires in PVC conduits as described above for all the following points. Point wiring to include cost of wiring in PVC conduits &amp; switch, sockets, boxes ,plates &amp; fixing accessories.</b>				
	a	a. Single Light points controlled by 6 Amp switch. ( 10 on 1st fl. + 2 Nos on 2nd Fl.)	120	Nos.		
	b	b. Two Light points controlled by one 6 Amp Switch (6 nos on 1st Fl. + 10 Nos on 2nd Floor)	40	Nos.		

	d	<b>6 AMP. POINTS ON SAME BOARD :</b>				
		<b>d. Dependent</b> 6 Amps 3/5 Pin combination type Universal socket with indicator mounted on switch- box. ( except toilets& passages- 6 Nos on 1st Fl. + 4 Nos on 2nd Fl.)	30	Nos.		
	e	<b>e.Fan/Exhaust Fan Points</b>	5	Nos		
8	4	<b>Raw &amp; UPS Points</b>				
		Supply, installation, testing and commissioning Of 3 Nos of 6Amp Universal Sockets controlled by one 16 Amp Indicator switch housed in a Modular PVC switch Box (Work Stn+ 2 each in server & training rooms etc)with Recessed surface plate for UPS Switch pts on Work-Stns. (3No sockets in box with surface plate will be below table. Only 16 Amp Control switch for these points with Recessed Surface Plate will Be above table. All wires to be drawn through cable/wire channel inside work-station. No surface conduit/casing to be seen below work-station. Conduit junction boxes should be below work-Station table & not below chair.	60	Nos.		
9	5	<b>CIRCUIT WIRING : ( Lighting Switch Boards )+ UPS Pt.+ R.P. Points</b>				
		S.I.T.C. of 3X2.5 Sq.mm. F.R.L.S. copper flexible PVC wires laid in 19/20 mm. Middle gauge PVC conduits laid on wall/above false ceiling/Concealed as per requirement with all accessories etc. from L.D.B. to Switch- Boards. & From UPS O.P. D.B. to Work-station+ From R.P.D.B. To R.P. Pts on work-Stations (Max. 2 Nos of UPS & Raw power points to be connected on one circuit.)	60	Nos.		
10	6	<b>200 x 200 mm square 12-15 w LED downlighter</b>				
		Supply, installation, testing and commissioning of 200 x 200mm square 12-15 w LED downlighters to be fixed in ceiling of gypsum/ armstrong tiles, and to be tied up to ceiling with GI wire or as the case may be of approved make	146.00	Nos.		
11	7	<b>Security System:</b>				

		a. S. & I. of 4"x4" Red Danger Mark Stickers 230 Volt/ 440 Volt etc. to be fixed on all the D.B.'s S. & I. of	6	NOS		
		b. S & I of 4.5 K.G. CO2 Fire Extinguisher (Cease Fire)	4	NOS		
		c. 4.5 KG ABC Fire extinguisher (Cease Fire)	4	NOS		
12		<b><u>POWER CABLE</u></b>				
		Supply ,laying ,testing and commissioning of the following 1100 volt grade L.T. XLPE Al . conductor armoured cable inner and outer sheathed , alongwith the two run of G.I.earth wire etc.i/c termination at both ends A. Under ground : The excavation of trench shall be of size 30 cm (w) x 85 cm (d) in all type of soil/ murum/rock/concrete/etc.And laying cable on a bedding of minimum 7.5 cm riddled soil or sand at the bottom of the trunch and covering it with additional riddled soil or sand of minimum 7.5 cm and protecting it by means of tiles / second class brick (10 nos in one meter) or slabs.Back filling of trench by debris etc.comoplete as required.the cost includes excavation,sand, bricks etc. B. On surface : S/Fixing the cable on wall / column / beam / ceiling / above false ceiling / existing trench etc incl. s/f of of shaddles / spacers ( wherever required as per site conditions) and two run of G.I. earth wire alongwith the cable. making good all the damages . i/c termination at both ends.				
	a)	3.5 C X 70 sqmm Aluminium armoured ( with 08 SWG G.I.wire )	55	M		
13		<b><u>POWER CABLE FOR FROM MAIN BOARD to UPS DB</u></b>				
		Supply ,laying ,testing and commissioning of the following 1100 volt grade COPPER armoured cable inner and outer sheathed , alongwith the two run of G.I.earth wire etc.i/c termination at both ends				

		B. On surface : S/Fixing the cable on wall / column / beam / ceiling / above false ceiling / existing trench etc incl. s/f of of shaddles / spacers (wherever required as per site conditions) and two run of G.I. earth wire along with the cable. making good all the damages . i/c termination at both ends.				
		a). 4 C X 10 sqmm copper armoured cable . ( with2 Nos 08 SWG G.I.wire )	20	RM		
14	8	<b>Earthing System:</b>				
		a..s & l of S.I.T.C. of Copper Plate ( 600mm X 600m x 3.15 mm)Type Earth Pit as per I.S. 3043. <b><u>Concrete Chamber with Mettalic cover, Funnel for adding water and Earth Strip Connector etc must be provided .</u></b>	2	NOS		
		c. .S.I.T.C. of 2 runs of 16 mm. FRLS Copper wires in 20 mm PVC Conduit from Earthing Pits To Meter room Meter O/P. 125 Amp MCCB in Metal Box. Making Tight connections with Spring & Ring washers in both Earth Pits and Both ends of MCCB box in Meter Room.	100	RM		
15	1 1	<b>Cutting/Chasing of Floor of follwing sizes for laying of Conduits as per site condition.</b>				
		1. 12" X 3" Size	200	Rft		
		1. 8" X 2.5" Size	200	Rft		
		1. 6 " X2.5" Size	200	Rft		
16	1 2	<b>S.&amp; I. of Metallic Boxes with Steel Surface Plates fixed with Steel screws including cutting of chases in the floor</b>				
		a. 12" X 12"				
		a. 8" X 8"	20	No		
		b. 6"x6"	40	No		
		c. 4" X 4"	25	No		
17	1 4 a	<b><u>EXHAUST FAN :</u></b>				
		Supply and fixing of the following 6 " Exhaust Fan as per size of toilet/UPS/Server Room Windows.	5.00	Nos.		

18	1 4 e	<b><u>WALL FAN</u></b>				
		Supply, installation, testing and commissioning of 16" Wall mounted Fans ( In consultation with Branch/R.O. Officials & as per their requirement)				
		(Make: Crompton Greaves/Usha/Almonard/Khaitan.	43	Nos.		
19		<b><u>16 AMP. POWER POINTS:</u></b>				
		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 l/c electrical wiring with 2 X 2.5 sqmm + 1 X 1.5 sqmm PVC insulated copper conductor single core multi stranded wire in 16 swg stove enameled rigid steel 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.	40	Nos.		
20		<b><u>AC POINTS :</u></b>				
		Supply, Installation, Testing and commissioning of the surface / recess mounting distribution board with 20 A plug and socket, with 20 A SP MCB Incl. wiring with 2 or 3 X 4.0 sq mm + 1 X 2.5 sqmm PVC insulated copper conductor single core multi stranded wire in 16 swg stove enameled rigid steel 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.				
		Single phase 25 Amp Point with 20 Amp SPMCB	5	NOS		
		Three Phase 32 Amp Point with 25 Amp MCB	7	NOS		
		<b><u>TOTAL FOR ELECTRICAL WORKS</u></b>				



\* THE RATES QUOTED ABOVE ARE EXCLUSIVE OF TAXES.

Total(InWords)

Rupees\_\_\_\_\_

Seal & Signature of the Contractor

**LIST OF APPROVED MATERIALS (electrical works)**

**Description**

PVC Conduit : Precision/Universal/VIP  
Ceiling Junction Boxes : Amar/Home lite  
Wires & cables : Havells/R.R./Finolex/Polycab  
Modular Switches, Sockets etc : M.K./Legrand/Havells/ Elleys  
Lighting Fixtures : Philips/Wipro/Crompton/Havells/Polycab/SYSKA  
M.C.B./RCCB/RCBO etc : Legrand/Indo-Asian/Havells/Hagger/L&T/Neptune  
Distribution Boards : Same As Above  
MCCB A.B.B./Schneider /Legrand/Havells/Hagger  
Change Over Switches : H.P.L./A.B.B./Standard  
End Termination accessories Dowells/Usha /Brecco/Cosmos  
Telephone Cables & accessories : Havells, Krone, Finolex,  
Fans/Exhaust fans : Crompton/Bajaj /Almonard/Havell/USHA

## BOQ for the Air Conditioning works of Bilaspur Branch

	<b><u>AIR-CONDITIONING WORK</u></b>	Qty	Unit	Rate	Amount
1	<b>4.0 T CASSETTE A.C.</b>				
	Supply, Installation, Testing & Commissioning of a 4 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. <b><u>Indoor Evaporator &amp; Outdoor Condenser Coils should be OF COPPER &amp; Not Aluminum</u></b>	3.00	Nos		
	<b>SHIFTING OF A.C</b>				
	Sifting of existing A.C in New location including filling of gas but excluding fixing of new copper pipe re-installation to new location, fixing of drain pipe with cutting of wall etc complete.	10.0	NOS		
4	S.I.T.C. of suitable voltage stabilizers for above capacity Air-Conditioners.	10.0	Nos		
5	S.I.T.C. of 19 mm dia & 16 mm dia Copper Refrigerant Pipes with Foam insulation between Indoor & Out door units.with breaking of wall wherever required for 2-3 Tr Cassette/ Inverter Air conditioners.	150.00	RM		
6	S.I.T.C. of 12.5 Sq.mm. & 6.25 Sq.mm. dia. Copper refrigerant pipe with foam Insulation between Indoor & Out door units with breaking of wall for making hole wherever required For Split Air- Conditioners.	200.00	RM		
7	S.I.T.C. of 19/25 mm. PVC conduit pipe to be used as a drain water pipe. Through holes as made above.	200	RM		
8	<b>M.S. BRACKETS</b>				
	Metallic Catwalk frame made out of 25 mm x 3mm iron angles with 20mmX 3 mm metal flat strips In-Between duly welded and supported on external wall for standing/walking for servicing of outdoor units of A.C.'s approx 2.5 feet wide from wall & approx 10 mtr length.	10	Nos		

9	S.I.T.C. of suitable voltage stabilizers for above capacity Air-Conditioners.	10	Nos		
	<b><u>TOTAL FOR AIR CONDITIONING</u></b>				

**Note:-**

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