

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)

शाखा कंधाल का इंटीरियर एवं इलैक्ट्रिकल कार्य
INTERIOR AND ELECTRICAL WORK AT
KANDHAL BRANCH



क्षेत्रीय कार्यालय सम्बलपुर
REGIONAL OFFICE SAMBALPUR
QUANTUM BUILDING, NEAR SANJIVANI HOSPITAL, MODIPARA, SAMBALPUR-768002

PART-II

(PRICE BID)

Rates to be filled in E-procurement portal

(TO BE SUBMITTED ONLINE ONLY)

BILL OF QUANTITY

BOQ FOR INTERIOR & FURNITURE WORKS					
S. No.	Description of Work	Unit	Quantity	Rate	Amount
1	FULL HEIGHT DOUBLE SKIN PARTIALLY GLAZED PARTITION				
	Providing and fixing full height partly wooden, partly glazed double skin partition with following specifications:				
	Providing and fixing full height partly glazed double skin partitions made out of Frame work to be 50mm X 50mm X 1.60 mm thick aluminium section weight not less than 0.836 kg/rmt with maximum distance of 450mm c/c both ways (Horizontal/Vertical) or as directed, firmly fixed to floor or slab with 65 to 75 mm long screw or as directed by the Bank's Engineer as per site conditions with necessary grooves and cuts etc. including anti-termite treatment to all wooden members wherever used.				
	The partition to be sandwiched with 6 mm BWP/BWR plywood from both the sides and finished with 1.0mm thick approved shades of laminated finish & match the panelling pattern. Additional members to be provided wherever door is to be provided. Wood shall be treated with anti-termite chemicals. The cost shall include all labor, materials, strictly as per the given design & drawing etc. in complete.				
	The partition will be provided with 8 mm thick float glass fixed at 900 -1200 mm above the floor level with <u>teak wood beading</u> fixed on both sides of the glass finished with polishing as directed. The float glass to be etched as per approved design (film etching to be paid separately). The beading for fixing glass to be fixed on both sides of the partition in such a way that it would be projected from the partition.	SQFT	105		
	The top panel (above glass panel) and side panels shall be provided with 6 mm thick BWP/BWR plywood double skin partition as per specification above upto ceiling/top support. Making provision for items like soffboards, white boards, electrical points, switchboards, telephone/ electrical/ data cables, etc. as & where required (but excluding the cost for items). All finishes shall be done as per details and as per instructions of Bank's engineer. The rate to include all materials, labour, transport, etc.				
	AT PARTITION BOTTOM & TOP LEVEL 75 MM BLUE + 25MM RED PATTI MATCHED WITH BANK'S BRANDING WITH COLOURED LAMINATE IS TO BE PROVIDED ALL AROUND THE BANKING HALL AND AS PER INSTRUCTIONS OF ARCHITECT.				
	Note: 1. In case of false ceiling at both side of partition, measurement for payment shall be taken up to finished partition level/false ceiling level & not of frame work and aluminium section member shall go up to slab/beam soffit. 2. In case of false ceiling at one side of partition only, then measurement for payment for portion above finished level/false ceiling level will be taken 50% and contractor has to provide ply/laminate at visible side only.				
2	FULL HEIGHT DOUBLE SKIN FULLY PANELLED PARTITION				
	Providing and fixing Fully panelled partitions as per specifications given in Item No. 1 above, except that no glazing shall be there in the partition (doors shall however be glazed, if so desired by the CENTRAL BANK OF INDIA, or can be fully panelled also, with the same details and specifications in Item No. 1) all complete as per designs, details and specifications.	SQFT	365		
3	LOW HEIGHT PARTITION				
	Providing and fixing double skin partly panelled and partly glazed Low Height Partitions (cash cabin side & back partitions / partitions b/w officer counters / BM cubicle partition) with 12mm thick glass neatly and strongly inserted as per design and pattern, with the specifications of the fully panelled portion identical to the specifications given in Item No. 1 above. All exposed members shall be of teakwood, and polished and protected with Melamine Polish.	SQFT	142		

	<p>P & F wicket gate wherever required with required SS hinges, SS tower bolts, automatic surface mounted spring door closer, Godrej Night latch, etc. <u>Rubber wood capping</u> made out of sect. 65 x 15 mm fixed at edges incl. natural polish / painting etc. complete as directed.</p>				
	<p>Making provision for items like softboards, white boards, electrical points, switchboards, telephone/ electrical/ data cables, etc. as & where required (but excluding the cost for items). All finishes shall be done as per details and as per instructions of Bank's engineer. The rate to include all materials, labour, transport etc complete. Further the partitions should have provision for fixing/embedding of vertical toughened glass partition and also toughened glass in vertical/horizontal position on SWO counter top, which will be measured separately.</p>				
	<p>All other specifications and conditions to be same as Item No. 1 above.</p>				
4	LOW HEIGHT CABINET				
	<p>Providing, making and placing in position low height storage cabinets as storage and/or runners from 375 mm to 450 mm depth, height of 750 to 900 and length as per site requirement, and in 18 mm BWP grade plywood construction with 6mm thk. BWP grade plywood backing complete. It shall have 2 no. of 125 mm deep drawers, equal size (min. 400 mm) wide on upper side and below to drawers, the cupboard unit shall be with openable shutter & adjustable shelf all along the full width of the credenza. All drawers shall be fitted with telescopic channels and locking arrangement and cupboards shall have locking arrangement and all exposed edges of plywood shall be fitted with lamination / teak wood beading duly polished. All beading shall have polish/painted of matching color. All visible surfaces shall be laminated with 1 mm thick plain or Textured Laminate on external surfaces and 0.8 mm thick white lamination on internal surfaces of approved make.</p>	SQFT	70		
	<p>Providing two nos. shelves, one at 75mm above floor level and one intermediate in middle made of 18 mm MR grade plywood with TW lipping on exposed edges duly polished. Two equal side hung shutters of 18 mm thk BWP plywood with teak wood lipping of size 20 x 6 mm on all edges for each compartment. No vertical edge of the storage units should be left sharp.</p>				
	<p>The rate to include for necessary hardware fittings (all SS brush finish) like shutters will be on EBCO self-closing hinges and drawers shall be on EBCO plain slides, SS handle to drawers & shutters, one no. of brass magnetic ball catcher for each shutter, one no. 75 mm long SS tower bolt to relevant shutter and one "Godrej" made lock for each compartment & drawers with common key, etc. complete. All the edges of the BWP plywood in contact with floor also to be provided with teak wood lipping of size 20 x 6 mm. Nylon Buffers of suitable size to be provided under the storage units fixed with screws, wherever required.</p>				
5	FULL HEIGHT STORAGE CABINET				
	<p>Providing, making and placing in position 350 mm - 450 mm deep full ht. storage units of reqd. length with overall ht 2100 mm approx. with 5 equal compartments, to be constructed in 18mm thk BWP grade plywood with TW lipping at edges. 18mm thk BWP grade plywood in verticals at every 900 mm or part thereof of at sides & at top. Back to be of 12 mm thk BWP grade plywood. Shelves to be of 18mm thk MR grade plywood, one at 75mm above floor & 4 intermediates shelves to have five compartments. 18mm thk BWP grade plywood overall shutter (i.e., set of 4 shutters in (900 x 2100 mm) (one shutter should not be more than 450 mm wide and 1200mm high), provided with 3 nos (for 1200 door) and 2 nos for 900 mm shutter 75mm long SS hinges for each shutter, two nos of 75mm tower bolt (one top and bottom), SS handles to shutters, magnetic catchers for each shutter and multipurpose Godrej or Ebco lock & brass handles all approved make.</p>	SQFT	112		
	<p>All visible surfaces shall be laminated with 1 mm thick plain or Textured Laminate on external surfaces and 0.8 mm thick white lamination on internal surfaces of approved make.</p>				
	<p>In case of electrical panel cabinet, Horizontal slots (approx. 10 mm wide) to be cut in the shutter at top & bottom for ventilation and no shelves to be provided.</p>				
	<p>Note: Elevation area will be measured for payment.</p>				
6	FALSE CEILING				
a	<p>Providing and fixing Gypsum board 12.50 mm thick false ceiling in steps (Gypsum Ceiling level will be below than fibre ceiling level by 6") and design using Original Gypsum board with original GI sheet section of Gypsteel ULTRA (Gypsteel Ultra shall be used) supporting system in line and level. Entire work to be done as per standard specifications of Saint Gobin Gyproc India / USG Boral. <u>Only Visible surface area in horizontal plane will be measured in sqft. for payment purpose.</u> Vertical surface area/patta will not be considered for payment.</p>	SQFT	196		

	<p><i>Saint Gobin</i>:- 12.5 mm thick Gyboard plain & Gypultra ceiling section as per following brief details:- (i). 20X30X27mm perimeter channel fixed with screws at 610mm centre to centre. (ii). 15X15X45mm intermediate channel 1220mm centre to centre suspended with 25X1mm ceiling angle at 600mm centre to centre. (iii). 51.5X26X10.5mm ceiling section at 457mm centre to centre. (iv). Board fixed over ceiling section with 25 mm drywall screws at 230mm centre to centre (staggered joint). Finished with Gyproc jointing compound, Gyproc joint paper tape & 2 coats of dry wall top coat. Work to be completed using all accessories, suspension system as per detailed specifications & manufacturer's recommendations/ datasheet.</p>				
	<p><i>USG BORAL</i>: - 12.5 mm thick USG BORAL standard Gypsum Board & USG BORAL universal sections as per following brief details: - (i). 28X18X30mm ultra frame perimeter channel fixed with screws at 600mm centre to centre. (ii). 27X27X45mm intermediate channel 1220mm centre to centre suspended with 24X24mm ceiling angle at 600mm centre to centre. (iii). 27X27X45mm USG BORAL ULTRA FRAME UNIVERSAL ceiling section at 457mm centre to centre completed with four-point compacting clips. (iv). Board fixed over ceiling section with 25 mm long drywall screws at 230mm centre to centre (staggered joint). Finished with USGBORAL joint tape / Fibre tape & all-purpose joint compound. Work to be completed using all accessories, suspension system as per detailed specifications & manufacturer's recommendations/datasheet.</p>				
	<p>Additional perimeter channels / ceiling sections with gypsum board shall be provided around the cut outs for light fittings, curtain rail, etc. Additional support for cut outs to be provided at no extra cost. The ceiling boards shall be fixed to the underside of the suspended grid using 3.5 mm x 25 mm self-tapping screws. The joints shall be finished with joint glass fibre tape and jointing compound of approved make. The surface of the false ceiling fixed as above shall be prepared by sand papering, providing, applying and finishing a coat of approved make acrylic putty, one coat of approved make acrylic primer and two or more coats of approved make and shade premium plastic emulsion, etc. Rate shall include making necessary cuttings for light fittings AC diffusers and other fixtures. No deduction shall be made and no extra payment made for making any opening. The rate shall include for all lead and lifts, labour, etc all as directed by the Bank's Engineer.</p>				
	<p>Providing & Fixing Mineral Fibre False Ceiling (Acoustical Suspended Ceiling System). Work to be completed using all accessories, suspension system as per detailed specifications & manufacturer's recommendations / datasheet. Necessary cut-outs shall be provided wherever required. Visible area shall be measured in sqm. only.</p>				
b	<p>ARMSTRONG:- 600X600X16MM Dune (Microlook) - Bevelled Edge tiles fixed over Armstrong - SILHOUETTE XL 15mm (9/16") mid range (1/4") Black Reveal) Grid System. Main Runners spaced at 1200mm centre to centre, 1200mm long cross TEE interlocked between main runners at 600mm centre to centre and 600mm long cut cross TEES at 1200mm centre to centre. 3000X19X19mm ARMSTRONG wall angle screwed to wall with screws at 450mm centre to centre. Armstrong Suspension system consisting of M6 Anchor Fasteners, 26X26X25X1.2mm vertical hanger, 2.68mm Hanger wire with adjustable hook clips to be provided maximum 1200 centre to centre both way</p>	SQFT	448		
	<p>USG BORAL:- 600X600X15MM / 595X595X16mm OLYMPIA MICRO-CLIMA PLUS FINELINE Bevelled edge fixed over USG BORAL FINE LINE DXF grid system(Black reveal). Main Runners spaced at 1200mm centre to centre, 1200mm long cross TEE interlocked between main runners at 600mm centre to centre and 600mm long cut cross TEES at 1200mm centre to centre. 3000X19X19mm wall angle screwed to wall with screws at 450mm centre to centre. The above grid is suspended at every 1200mm centre to centre in both directions using 4mm thick GI hanger wires with approved accessories.</p>				
7	INTERNAL PANELLING (at false ceiling bottom level over walls)				
	<p>P/F internal 4 inches wide wall panelling/patta with 12 mm thick BWP plywood finished with 1.00 mm thick laminates, 8'-6" high as per design as directed.</p>				
	<p>AT GYPSUM CEILING BOTTOM LEVEL BLUE & RED BANK'S BRANDING PATTA IN RATIO 3:1 IS TO BE PROVIDED ALL AROUND THE BANKING HALL AND AS PER INSTRUCTIONS OF ARCHITECT.</p>	RFT	110		
8	Vertical Blinds (Only in Banking Hall)				
	<p>Providing & installing Vertical Blinds of Trac / Vista or equivalent, 100 mm wide, in two colours, of medium range fabric (synthetic material), of approved shade and colour, pull cords shall be 1.7mm dia. Braided nylon with a core of rayon threads. The blinds shall be operated able in any direction with a flight upto 180 degrees and can slide to one side for opening purposes. All metal parts shall be corrosion resistant and rotating parts shall be self-lubricating. The fixing of the top rail shall be with special GI brackets at approx. 1meter c/c. complete as directed by the EIC.</p>	SQFT	0		
9	TABLE / COUNTERS				
	Providing and placing new tables along with matching credenza of plan size (basic) as given below:				

	<p>a) Table top to be made of 19 mm thick BWP plywood, edged with Teakwood beading of 40 mm x 25 mm, cut to required shape with the entire table to be finished with superior quality 1mm thick wood finish laminate / approved equivalent. Teakwood Beading to be polished to required colour and finished and protected with a top-coat of melamine finish.</p> <p>b) Tables to have a vertical modesty panel of 19mm thick BWP plywood covered with 1mm thick superior wood finish laminate (textured / raised wherever required) / approved equivalent of approved colour and minimum 0.8mm thk laminate to be pasted on the inner side, which is not visible.</p> <p>c) Drawers and cabinet shutters to be laminated on all external surfaces and 0.8mm laminate on all internal surfaces as specified above. All drawers and cabinets (both in tables and credenza) to be provided with 'Godrej' locks and handles. Independent locking arrangement (cam lock) for each pedestal. At least 3 nos of drawers in each pedestal. Sleek handles for easy grip.</p> <p>d) Providing circular holes in table top for cables with PVC cable managers of 65 mm dia and cap.</p> <p>e) One M S powder coated keyboard tray with mouse tray as manufactured by Ebco (KBTM 45) or EGL (KBT-M-001) including sliding channel as per manufacturers specification to be provided below the working platform.</p> <p>f) On the left side platform at bottom for CPU. CPU trolley with rollers for each counters/table.</p> <p>g) One footrest of plywood / salwood of cross-section 70 x 35 mm finished with painting.</p>				
I	BM Table Set: 6'-0" x 3'-0" (as/ design) with 12 mm glass top	Each	1		
II	Officer / SWO Table Set: 5'-0" x 2'-6" (as/ design)	Each	1		
III	Officer / SWO Table Set: 4'-6" x 2'-6" (as/ design)	Each	1		
IV	Size: 2'0"W (For Server Counter)	RFT	4.5		
V	Cash cabin table set - 4'-6" x 2'-9" (in two level)	Each	1		
	Providing & Fixing Cash counters set with two levels i.e., 2'-6" & 4'-0" ht. The lower portions top & all other exposed surface will be as per specifications above.				
	Providing, making and fixing in position 12mm thick toughened glass in the front side covered with frosted film, vertically of height 400 mm and to place & fix another toughened glass of 12 mm thickness with round edged to be placed horizontally (of width 400 mm) above the vertical glass of length, equal to the length of the counter. Above this toughened glass of 12mm thickness with holes/sleeves as per design up to ht. of 7'-0" supported at sides and top with teakwood lipping fixed on TW frames with ply over it as per item given in 9a. The top drawer to have cash separation arrangement. THE RATES ARE INCLUSIVE OF TRANSACTION LEDGE, GLASS ABOVE TRANSACTION LEDGE AND FRONT SIDE PARTITION OF 6" (BOX TYPE DESIGN) TILL 7' HT FROM FFL.				
10 WRITING LEDGE, DROP BOX & COMPLAINT BOX:					
a	Providing and fixing curved shaped customer voucher holders writing ledge of width 900 mm and maximum depth 450 mm fixed to be wall or partition at a height of 1050mm made of 18 mm thk. MR plywood and 12 mm thick glass top, and sides and edges shall be finished with 1 mm thick plain or textured laminates including inlay etc if required, pigeon hole arrangement of min. 150 mm height and as directed. The cost shall be completed with lippings, mouldings, fittings, and accessories etc as per specification. as per the drawing and instruction given by the Bank Engineer.	Each	1		
b	Cheque drop box and complaint box each of size 12" width x 18" ht. has also to be provided below/side of the ledge made of 12mm thick ply at all sides finished with 1.0mm laminate, inside 0.8 mm laminate. The shutter is to semi glazed with 6 mm thk plain glass and lock arrangement. Provision of slit is to provided at top. The other hardware, such as S.S. handles, brass hinges, locks and magnetic catchers etc. shall be shall be provided as per requirement. The work to be Completed as per design and approval of the Bank's Officials.	Each	2		
11 NOTICE / SOFT BOARDS					
	Providing & fixing soft boards of size 4'-0"x 2'-6" on 10mm th. ply board 12mm thk. soft board finished with cotton fabric, 1"x2" teak wood beading with polish is to provided around all sides. (Basic cost of fabric Rs. 200/- per mt.)	SQFT	10		
12 ALUMINUM MAIN DOOR					
	Providing and fixing Aluminium door comprising of approximate 83.5mm vertical members, approximate 85-90mm top & bottom, approximately 83.5mm middle member, Black powder coated. Thickness of section not less than 1.5mm. Hemco/Dorma/ Gezee/ Insta floor spring (for 100 kg weight and rated for min 0.3 million cycles) and Pivot on top. 12 mm clear glass with scratch free film on both sides and 300 mm wide Bank's logo one one side.	SQFT	25		
	Suitable rubber beading. Wool pile/ weather strip on one vertical member. Providing and fixing colour customized door handle 18" long to fit on aluminium section and locking arrangement of 100mm GODREJ Mortice Lock of 6 lever all complete including necessary dismantling RCC/brick work for fixing of floor springs and fixing of frame. The door size is 3'6" x 7'				
13 ALUMINUM FIXED PARTITION					

	Providing and fixing Aluminium panel fixed comprising of approximate 83.5mm vertical members, top & bottom and middle members. Black powder coated. Thickness of section not less than 1.5mm. 12 mm clear float glass (Modi/ Saint Gobain) with scratch free film and 300 mm wide Bank's logo on both sides to be used. Depending on the width & height of the façade, one or two panels may be made.	SQFT	24.5		
14	TOUGHENED GLASS PARTITION (above workstations)				
	Providing and fixing glass barrier (as per profile and design) in front of cash and ledger counter made out of 12mm thick polished edged toughened glass (Make - Modi guard or equivalent). It shall have 25mm x 20mm teakwood beading (as/shape approved by the Architect) to held 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.	SQFT	14.25		
15	SOLID FLUSH DOORS (WITH OR WITHOUT VISION PANEL)				
	Providing and fixing solid doors of sizes as shown in the drawing with 30mm solid flush door finished with 1.0 mm thick approved laminate on both sides. Rate shall include Mortise lock (Godrej Make), floor springs / door closure (as the case may be), door stopper, 5" hinges 4 Nos., buffers, etc with necessary hardware items and with door frames.	SQFT	105		
16	CASH COUNTER DOOR WITH NIGHT LATCH				
	P/F solid doors of sizes as shown in the drawing. The door shutter shall be of 30 mm thick flush door of approved make and finished with 1.0 mm thick approved laminate on both sides. Rate shall include night latch, a pair of handles 5" SS Brushed finished, 5" hinges 3 Nos., buffers, tower bolts, etc with necessary hardware items.	SQFT	17		
17	BOXING FOR ROLLING SHUTTER				
	P/F boxing for rolling shutter with 19mm & 12mm ply. Necessary wooden framing shall be provided to support the structure with a openable shutter of 5" opening for smooth operation of shutters and rest is closed with mirror screws (for opening and servicing).. The boxing shall be finished on all exposed sides by 1.0mm thk laminate.	SQFT	35		
18	DRESSING MIRROR FOR LOCKER ROOM				
	Providing and fixing dressing table made out of mirror of size 1' 6" x 4' 0" using 12mm thk. Ply with 6mm thk. clear Mirror fixed on the wall and tray of size 1' 6" x 1' 6" with one drawer for cosmetics. (Measurement is measured only for mirror)	SQFT	9		
19	GLAZED PARTITION				
	Providing, making and fixing in position full ht. 12 mm thick toughened glass between walls/columns, vertically in aluminum anodized sections all around for external facade glazing. Anodizing to be natural finish shade. The work includes fixing of glass with Top, Bottom & Side surface with proper SS support/fittings. The gaps to be sealed using weather resistant sealant like Dow Corning 789 or any other approved brand.	SQFT	0		
20	INTERNAL PAINTING. (For Wall):				
	Providing and applying washable premium emulsion paint oil based of Approved brand and of approved shade firstly removing old paint with scratching using stiff wire / fiber brush, sand paper, fine steel wool then removing all loose and powdery residue, any fungus and algae thorough brushing, cleaning, making surface imperfections such as holes, dents, small visible cracks by filling using mixture and then after surface preparations with putty, then applying one coat of approved primer, then providing and applying two coats of washable oil based premium emulsion of approved colour, shade. Complete as per the direction of Consulting Engineer / in-charge.	SQFT	2450		
21	VINYL FLOORING (Strong room):				
	Providing and fixing of minm. 1.5 mm thk. 2'x2' tiles/ 3' wide roll of approved make & color inclusive of 4" to 6" skirting. The adhesive must be applied only after proper cleaning/ washing of the surface on which the tiles/roll are to be fixed. The rate is inclusive of cleaning repairing the floor wherever required and removing the spilled out adhesive, stains etc. on the surface. (In strong room and locker room).	SQFT	0		
22	ELECTRICAL MAIN PANEL CABINET				
	Providing and fixing the 1'-6" deep storage units. The storage units shall have shutters made in 17mm or more thick plywood and finished in laminate of approved shade including top. Laminate to be provided in 1 mm thickness (exterior) and 0.8 mm thick (interior)- no paint. Backply to be in 9 mm or more ply. The storage units shall have no intermediate shelves. 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. Louvers to be provided in shutter made up of teak wood and is to provide in 4 nos of avg. size. 1' x 2' (total 4 nos) as per the design / instructions of Bank.	SQFT	28		

TOTAL AMOUNT =

BOQ FOR ELECTRICAL AND AIR CONDITIONING LOW SIDE WORKS

WIRING					
1	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/angle holder etc. including 1.5 sqmm PVC insulated copper earth wire etc. complete as required. Wire colours: Red, Black, Green. Supplying, providing wiring (supply, fixing, testing and comm. etc.) for circuit with 2 x 2.5 + 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/destination) and making good all the damages, painting, cleaning the site etc. complete as required as per site requirement and as directed.				
1.1	Primary light point	Point	14		
1.2	Secondary light point (Maximum 2 points to be looped from primary)	Point	18		
1.3	Plug point /ceiling Rose Point (for wall fans/Exhaust fan) Supply, fixing and commissioning of 1 No 6A multi-Socket/Ceiling rose 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.	Point	7		
1.4	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 with indicator (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.	Point	6		
1.5	Ceiling fan point (rate should include 100 W modular electronic fan speed regulator)	Point	2		

2	Supply, laying, testing and commissioning of the following 1100-volt grade PVC insulated copper conductor unarmoured cable inner and outer sheathed, along with the one run of G.I. earth continuity wire i/c termination with brass gland and Al. lugs etc. complete as required. S/Fixing the cable on wall / column / beam / ceiling / above false ceiling / existing trench etc. incl. s/f 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.				
a	2 x 4 sqmm + 1x 2.5 sqmm wire (Sub Main Wiring from Main panel to UPS DB)	Meter	30		₹ 0.00
b	4 x 6 sqmm + 1 x 4 sqmm wire (Sub Main Wiring from Main panel to power/light DB)	Meter	20		
3	UPS points (any length)				
	Supplying and fixing suitable size box with modular plate and cover including providing and fixing 3 pin 3 x 6/16 amps modular socket outlet, 16 amps modular switch, indicator light on board connection etc. as required with wiring with 2 X 2.5 sqmm + 1 X 2.5 sq. mm FRLS PVC insulated copper conductor wire in MMS grade PVC conduit with all accessories etc. (wiring from DB / Source to Board/destination) and making good all the damages, painting, cleaning the site etc. complete.	Each	7		
4	LAN POINT (any length)				
	Supplying and fixing four pair shielded CAT 6 SFTP LAN cable tinned copper conductor (from Server rack to I/O outlet) through PVC conduit including connection, testing etc. as required with identification by numbering etc. complete as required as per AT&T specification.				
a	Net socket outlet with shutter modular type RJ - 45 I/O with suitable size PVC modular boxes complete as required (D-Link Make)	Each	7		
b	Supply of readymade patch cords (CAT 6) cable of 2 mtr length complete with connectors and boots on both sides.	Each	5		
c	Supply & fixing wall mount 9U server Rack with power distribution units, Horizontal cable manager, fan etc. complete as required	Each	1		
d	Supply of readymade patch cords (CAT 6) cable of 1 mtr length complete with connectors and boots on both sides.	Each	7		
5	16 AMP. POWER POINTS: (including circuit wiring):	Each	4		

	Supply, fixing, testing and commissioning of 1 No 16 A switch with indicator & 1 No. three 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 x 4 sq.mm. + 1 x 2.5 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 to destination) and making good all the damages, painting, cleaning the site etc. complete as required as per site requirement and as directed.				
6	MODULAR BLANK PLATE				
	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	6		
7	AC POINTS				
	Supply, Installation, Testing and commissioning of surface / recess mounting modular 25 A modular starter unit comprising of 25 A starter, 25 A socket with 25 A plug including wiring with 2 X 4.0 sq mm + 1 X 2.5 sq mm 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.	Set	5		
8	MCCB, MCB & DB'S				
A	LIGHT/POWER DISTRIBUTION BOARD				
	Supplying and installation of following way, horizontal type three pole and neutral, sheet steel, MCB distribution board double door, 240 volts, on surface/ recess, complete with 100 A copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including Earthing etc. as required including DB wiring, dressing with ferruling, termination of circuits with ping type copper lugs, cable gland etc.	Each	1		
	4-way TPN DB IP 43, Double door				
	INCOMER				
	1 No. TPN-RCBO 63 Amp ,100 ma sensitivity				
	OUTGOINGS				
	6 Nos SPMCB 10/16 Amp, B-Curve + 6 Nos SP MCB 20/25 Amp, C Curve				

	SET AS ABOVE				
B	UPS Distribution Boards				
	Supplying and installation of following way, horizontal type single pole and neutral, sheet steel, MCB distribution board double door, 240 volts, on surface/ recess, complete with 100 A copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including Earthing etc. as required including DB wiring, dressing with ferruling, termination of circuits with ping type copper lugs, cable gland etc.	Set	1		
	IN/OUT UPS				
	2 Nos Plug & Socket DB				
	2 Nos DP MCB 40 Amp				
	OUTGOING DB				
	1 NOS 8 WAY SPN DB IP 43, Double Door				
	1 Nos of 40 A DP MCB & 6 Nos SP MCB 6/10 Amp				
	SETs AS ABOVE				
C	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	8		
D	Danger Sticker / Board for Indication at Main panel	Each	1		
9	CALL BELL				
	SITC of Call bell point/circuit wiring including Ding – Dong bell with 2 x 1.5 mm sq. FRLS multi strand PVC copper wire including 6 A Bell push with indicator modular switch, mounting box, etc. in BM Cubicle.	Nos	1		
10	CHEMICAL EARTHING WITH EARTHING BUS				
a	SITC of Chemical Earthing using minimum 17 mm dia. 2 mtr long high tensile low carbon steel circular rod with minimum copper bonded thickness of 250 microns. Providing copper strip 150 mm x 25 mm x 6 mm in straight through joint to terminate Earth Rod having 4 holes for connections complete with excavation in all types of soil/stone, civil works etc. The voltage between Neutral & Earth not to exceed 2 volts & IR value less than 1 ohm. The earth resistance shall be as per IS 3043. A hole of 100 mm to 125 mm dia. to be augured to a depth of about 2.5 meters. Providing & Backfill Earthing enhancement Compound minimum 20 kg approved by NABL.	Nos	2		

b	P & F Brick masonry Chamber with plaster incl. all civil works complete with concrete/iron lid painted black with pulling hooks on top. Size: 300x300x300 mm internal.	Nos	2			
c	Supply & Installation of (32 x 6) mm of 300mm length GI. earthing bus with enclosure near main electrical panel with sufficient no. of holes for connecting earthing wire with necessary accessories, hardware, etc.	Nos	1			
d	Connecting from Earthing terminal to electrical DB system by 4 sqmm single core FRLS multi strand PVC copper wire in 20mm PVC pipe including all necessary hardware and accessories etc. complete as directed by EIC.	Mts.	40			
11 ELECTRICAL MAIN PANEL						
a	SFU TPN 100A with HRC fuses (just after meter and prior to Main Panel) in metal enclosure.	Each	1			
b	Supply, erection, connecting, testing and commissioning of 4 way VTPN Wall mounted for use of 415 volts, 3 phase, 50 HZ housed with copper bus bar equipment and their accessories with following incoming and outgoing switchgear as per the specifications and schematic diagram <u>INCOMER:</u> 1 Nos 100 Amp 4P, 36 kA, MCCB's with microprocessor-based releases for overcurrent, short circuit protection with isolable neutral, ON indication, 1 no. multifunction digital meter (showing all power parameters), with selector switch, matching cast resin CT's. <u>OUTGOING</u> 3 nos 63ATPN MCB's, 25 kA with indication lamps (1 each for light DB, AC DB & Changeover output) 3 nos 40 A DP MCB's, 25 kA with indication lamps (1 for UPS DB, 1 for GSB & 1 nos spare) Other items such as 1 Lot of control Copper wiring with all internal wiring and thimble including.	Set	1			
c	1 nos of 100 A 4 pole 415 V compact on Load manual Changeover in separate metal enclosure.	Each	1			
12 SITC OF FIXTURES AND FITTINGS						

	Installation of following type direct/ indirect type recess/surface/ wall mounted light fixtures. The fixtures shall be installed including supply and wiring between Ceiling rose to fixture with supply and laying of 3core 1.5 Sq.mm copper flexible cable and fixing of following luminaries/ fittings with all required accessories, support chains & interconnections etc. including cost and conveyance of all materials, taxes and all labour charges etc., complete.			
a	Supply, installation, testing and commissioning of 11 W LED recessed mounted down light. Lumen output: 1200 lumen, 6500 K	Nos.	12	
	<i>Approved model: Philips Green Perform Sleek DN296B LED12S-6500 PSU WH</i>			
b	1200 mm ceiling BLDC fan - 5-star rating	Nos.	2	
	<i>Approved Model: Crompton Energion HS 1200 mm</i>			
c	Supply, installation, testing and commissioning of 2'x2' square commercial LED of minimum 35-38 W of correction colour temperature 6500 K recess mounted luminaries. (Minimum output: 4000 lumen), PF >0.9, CRI >=80.	Nos.	9	
	<i>Approved model: Philips Full Glow RC380B LED 42S - 6500 G6 L60W60 PSU OD (Generation 6 professional model)</i>			
d	Supply, installation, testing and commissioning of 18-inch dia. white wall fan having sweep of 400 mm, minimum power input 60 Watts, Having two cord one for 3 no. swing and another one for speed control, minimum motor speed 1250 RPM. Having plastic Blades, Thermal overload protection for long lasting motor, smooth oscillation with elegant aesthetic.	Nos.	6	
	<i>Approved Make: Crompton Greaves High Flo Wave Plus WM</i>			
e	Supply and fixing of 300 dia. Exhaust fans single phase Exhaust Fan continuously rated, capacitor start and run type, totally enclosed and ruggedly built, pre lubricated double ball bearing, copper wound, A & E class insulation, dynamically balanced, below 40 db sound level etc. including dismantling of wall to make round hole of 400 dia., preparation of surface, plaster etc. as directed by EIC.	Nos.	1	
f	20 W LED T5 tube light Wall/ceiling mounted light fittings	Nos.	8	

13 MAIN (SERVICE) CABLE					
	Supply and installation cable from electric meter to LT Panel with 3.5 core 35 sqmm flame proof PVC insulated aluminium conductor armoured CABLE of 650/1100 volts grade with required 12 SWG GI earth wire including making all the connections, including cutting chases and making good the surfaces wherever required.	MTR	20		
14 Glow Sign Board point wiring:					
14	2 x 4 sqmm + 1 x 2.5 sqmm multi strand PVC copper wire in PVC Pipes. This is to be connected to either one of SP or DP MCB of the Main Panel. Finolex/RR/Polycab	MTR	25		
15 Supplying, Installation, testing and commissioning of the telephone point with the followings -					
	Two pair, 0.5 sq mm telephone cable tinned copper conductor, P.V.C. insulated and sheathed, fire retarding, anti-termite, color coded twisted pairs and rip cord.	EACH	4		
a	HMS PVC pipe on beam /column / wall / floor etc. with all necessary materials i/c connections, identification by numbering etc. complete as required as per I.T.D. specification				
	Single outlet with shutter modular type Telephone Outlets (RJ – 11) with suitable size PVC modular boxes complete as required.				
b	Providing and fixing 10 pair KRONE make telephone tag block with 10 pair module with termination and crimping complete and making good the surface as required/ directed.	NO	1		
16 AIR CONDITIONING LOW SIDE WORKS					
a	Copper Pipe: Providing & Fixing Refrigerant copper piping system (one carrying cold refrigerant gas & other carrying warm liquid refrigerant) made out of hard drawn copper including accessories, jointing/brazing etc. laid between indoor & outdoor unit as per OEM's specifications duly insulated with Class "O" fire retardant sleeve type elastomeric nitrite rubber insulation. Alu. foil membrane shall be applied to provide resistance against breakdown due to UV radiation for exposed portion of the rubber insulation with Nitrogen testing (totally sealed - in case of proposed machine).	RM	15		

	<p>It shall be in total clamping manner above false ceiling & in total concealed manner below false ceiling level. From the structural ceiling it should hanged with suitable adjustable ring type hanger supports etc. or shall be fixed on wall / beam etc. with clamps & the distance between two clamps shall be less than 1 meter. It shall not be placed over the false ceiling nor shall it be fixed with false ceiling members. The diameter / gauge of the ref. pipe shall be as per the specifications of the Manufacturing company (OEM) only for each type of machine. Use only Long Bend to Avoid Pressure drop Copper pipe with insulation. Necessary opening on the wall / glass may be done finishing with cement plaster / new glass / sealant etc.</p>				
b	<p>Drain Pipe: Providing & Fixing of insulated PVC drain lines with all necessary fitting accessories, Elbows, Tees, wall Sleeves etc. for various units in concealed manner below false ceiling level. It shall be laid required gradient for easy disposal of the drain water & testing shall be done before filling the zaries. The drain line shall not be laid in the floor. All drain pipes should be UPVC Heavy Duty of suitable size as recommended by manufacturing company and it should be connected to the nearest rain water pipeline/ as per the site condition. Necessary opening on the wall / glass may be done finishing with cement plaster / new glass / sealant etc.</p>	RM	12		
c	<p>Cable: Supply, installation, testing and commissioning of Cable from IDU to ODU with 3 core 2.5 sqmm unarmored copper cable. Necessary opening to be done on the wall / glass finishing with cement plaster / new glass / sealant etc.</p>	RM	15		
d	<p>AC ODU Stand: Providing & Fixing of M.S. Stand wall / floor mounted for split air-conditioner outdoor Condensing unit rested on walls / ground with vibration isolator pad. It shall be made out of heavy gauge M.S channels, angles, flats etc. of appropriate size & thickness duly painted with anti-corrosive paint. The stand has to permanently fixed to nearby walls including cutting of walls and finishing with plasters etc. The entire item has to be executed as / req. of the machine & site conditions.</p>	EACH	4		

e	Supply, installation, testing and commissioning of digital electronic voltage stabilizer of 12 Amp capacity having working range between 150 VAC to 280 VAC with Low and High voltage cut off protection. Also having built in thermal overload protection suitable for upto 1.5 tn AC.	EACH	4		
	<i>Equivalent model: V-guard VND 400 Plus</i>				

TOTAL AMOUNT (ELECTRICAL WITH AIR CONDITIONING LOW SIDE) =	
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ABSTRACT

SUB: INTERIOR AND ELECTRICAL WORK AT KANDHAL BRANCH

Sr. no.	Particulars	Amount
1	Interior 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, transportation etc. except GST. GST will be reimbursed as applicable.*

**Seal & Signature
of Firm,**