

	PROJECT: INDIAN BANK AT CHIKALWADI- NANDED BRANCH ,				
	CLIENT: CIRCLE OFFICE, NAGPUR				
	SITE ADDRESS: CHIKALWADI-NANDED CITY				
	RECAPITULATION				RS
A	FALSE CEILING				
B	FURNITURE WORK				
C	ELECTRICAL WORK				
D	DATA CABLING AND COMPUTER POINTS WORK				
1	TOTAL				
	GST				
	CGST- 9%				
	SGST-9%				
	TOTAL AMOUNT FOR APPROVAL				
	INTERIORS & CIVIL WORK				
A	FALSE CEILING				
A1	GYPSUM CEILING	sq.m	20		
	Providing and fixing falseceiling of India Gypsum Company 12.5MM THK USG BORAL MAKE make which includes fixing of GI perimeter channel of 0.55mm thk having one flange of 20mm and the other flange of 30mm and web of 27mm along the perimiter of ceiling screws fixed to wall/partition with the help of necessary screws and sleeves of 610mm c/c and suspended GI intermediate channel of size 45mmx0.9mm thk with flange of 15mm each from soffit at 1220mm centre with ceiling angle width25x10x0.55mm thick fixed to soffit of GI cleat with steel expansion fastener. Ceiling section of 0.55mm thick having knurled web of 51.5mm and 2 flanges of 26mm each with lip of 10.5mm and then fixed to intermediate channel with the help of connecting at 457mm centre using 12.5mm tapered edge Gyp board is then screw to the ceiling sections either screw 230mm center, all joints to be finished with necessary paper tapes and jointing compounds the finished as directed with 3 coats of luster paint. the rate is inclusive of making openings for light fittings and AC grilles Complete				
A2	TILED CEILING	sq.m	70		

	Providing 600x600 tiles 15mm thk USG BORAL RH 90 make on SILHOUTTE grid fixed as per manufacturer specification. Complete.				
	TOTAL: PART A: FALSE CEILING				
B	FURNITURE WORK				
B1	Partitions (with laminate finish)	sq.m	77		
	Providing and fixing on site in required position Full/half height partition of height as shown on drawing made out Hard wood sections of full size 50mmx50mm treated with anti termite treatment space at maximum 600 mm horizontally and vertically.c/c with proper half notch joint between the horizontal and vertical members and lap joint between two straight members with proper fixing, to be covered with 6mm ply of approved make on either side so as to make a composite partition thickness of 62mm. All exposed periphery of the parttion to have 12x75mm agrowood moulding with half round on both sides fixed to the partition finished in natural polish. Partition shall be finished on both sides with 1.0mm laminate of approved shade make and design fixed with Fevicol (SH) and mild steel nails and supports as required for adequate strength. Including all reccomended Hardware,Doors,12/6mm thk glass etc.as shown in drawing. Complete.				
B2	Counter	R.M	3.66		
	Providing & fixing at site Counter made out of 18mm thick of size & design as shown in drawing and as per Architect's instructions. The counter shall include one no cash drawer wher CTO is going to sit while other drawers and EBCO Make ready made computer drawer on slides per clerk space. All external finishing to be done in 1.0mm laminate all internal surfaces to be french polished only. All edges shall have 25x 8mm TW/agrowood lipping. The top & front surface of vistors side to in 1.0mm thk laminate . As shown on drawing and directed. . Refer drawing complete.				
B3	Counter front partition	sq.m	2		
	Providing and fixing counter front partition in 10mm thk glass with white film at botton, with opening for cash transcation Complete as shown in drawing.				

B4	TABLES including side Unit				
	Providing & fixing onsite tables made in 18mm ply for top vertical & front finished in 1.mm thick laminate vertical and 1.5mm laminate on horizontal surface externally, all internal surface in, french polish, item to include all hardware, lipping etc. as shown in drawing and as instructions issued by the Architect. The table shall have computer keyboard drawer with lock and cable ring on top surface. The drawer unit shall consist of drawers as shown in drawing with 12mm ply for front and ebco make drawer sides on slides and back. One footrest in salwood section of 70mmx35mm, Providing multipurpose lock and recessed handles of approved make for each of drawer and shelf. Rubber wood beading for all expose surface finished in natural polish Complete				
	MANAGER TABLE 1.65X.65 SIDE UNIT 0.9X.75 (H)	NO	1		
	OFFICE TABLE 1.5X.6 SIDE UNIT 0.9X.75(H)	NO	2		
B5	Panelling	sq.m	0		
	Providing & fixing on site wall panelling in 6mm ply finished with 1mm laminate. As per design shown and directed by Architect with edge8mm thk agrowoob. lipping finished in polish etc. The panelling shall have gap of 35mm from wall to be provided by 35mmx35mm thk hardwood laminate treated with anti termite for levelling surface and fixed at 600mmx600mm horizotal and vertical (for concealing conduits pipe) complete.				
B6	Writing Desk (1.2 x0.45)	no	1		
	Providing and fixing on site writing desk made in 18mm ply finished with 1.0mm laminate and 12mm clear glass with edge crystal polish supported on s.s studs and caps for holding slips/challans. including dust box shown below. As shown on drawing and directed by Architect. Complete.				

B7	Storages	sq.m	5		
	Providing & fixing Storage units made in 18mm ply front sides horizontal and vertical and back in 6mm ply with front shutter finished in 1.0mm lamiante of approved shade and colour agrowod lipping finished in french polish all internal surface shall be finished in french polish only including all necessary hardware such as Handles (s.s finish) hinges (brass anodised) Locks (Ebco make) Magnetic catch etc with 18mm plywood shelves at 400mm approx c/c etc . The depth of storage units shall be 450mm.complete.				
B8	Notice board	no	1		
	Providing & fixing on site soft board covered with blazer cloth on 12mm ply as base and 50x25 mm T.W. frame finished in polish.				
B9	Vertical Blinds	sq.m	0		
	Providing & fixing on site Vertical Blinds of 100mm of vista/mac make of approved shade as drieved and channels fixed as per site conditionsfor measurement window opening shall be considered only.				
B10	CHEQUE DROP BOX, SUGESSTION BOX	NO	2		
B11	ACP cladding on exterior	sq.m	10		
	Providing 3.0mm thk ACP cladding on aluminum frame work for exterior portion only. Complete				
A	T O T A L : FURNITURE WORK				
B	ELECTRICAL WORKS				
NO	ITEM	UNIT	qty		
	<u>SECTION - A</u>				
2	<u>MAIN INCOMING PANEL (MIP)</u>	nos	1		

	Supply, installation, testing and commissioning of wall /floor mounted indoor type, air insulated, totally enclosed vermin-proof, dead front, cubicle type, 2 mm thick sheet steel enclosure main incoming panel (MIP) suitable for use on 415 V, 3 Ph., 4 wire, 50 Hz. A.C. system, instrumental panel, CTs, incoming and outgoing cable compartment. Each unit shall be accommodated in a totally separate compartment having gasketed hinged door with locking arrangement. The Panel shall be complete with switches of following ratings, interconnection, G.I. earth busbar of adequate size covering the total length of switch board with drilled holes, G.I. bolts, nuts, washers, etc. The cubicle should be painted with 2 (two) coats of light grey synthetic enamel paint over two coats of zinc chromate primer. Danger sign board in English, and Marathi.				
	The complete fabrication, construction shall be done as per the detailed specification and conforming to the relevant IS. Name plate of Panel, Danger Board, incoming and outgoing feeders with Ampere rating of switches / change over switch are to be fixed up on front door above or below the respective switches. Short circuit I.C. of all MCBs should be of 10 KA (min.) The contractor shall submit the fabrication drawing for approval before fabrication.				
	The MIP consists of the following				
	<u>INCOMING :</u>				
	1 No. : 415V 100A 4P MCCB (25KA min.) having O/L & S/C protection device.				
	1 No. : 415V 25A TPN MCB				
	6 Nos. : Phase indicating lamps.				
	3 Nos. : 150/5A CTS				
	<u>2 sections of PVC sleeved TPN Tinned Copper Busbar</u>				
	a) 25mm x 6mm for phases & neutral for one section &				
	b) 20mm x 5mm for phases & neutral for other section.				
	<u>G.I. EARTH BUSBAR</u>				
	25mm x 6mm covering the total length of panel.				
	<u>Outgoing</u>				
	2 nos. 415V 63A TPN MCB				
	3nos. 415V 32A /40A TP MCB				
	4 nos. 240V 32A/40A SP MCB				
	6 nos. 240V 16A/20 A SP MCB				
3.5	ATM BOARD: - 40/32 Amps DP MCB in MS enclosure box	nos	1		
3.6	UPS POWER DISTRIBUTION BOARD 4 Way TPN DB consist of Incomer: -63 Amps DP MCB - 1 No.	nos	1		

	Outgoing: -63 Amps DP MCB - 1 No.				
TOTAL SECTION A					
SECTION - B					
POWER CABLE & TERMINATION: -					
1	Supplying, Installation, Testing & Commissioning of LT Cable rated for 600 / 1100 Volts AC as per IS Standard with necessary accessories and termination as required.				
2	3.5 Core X 50 Sq.mm. Aluminum armoured cable from Meter Room to Main Power Panel with 2 Nos. of 12 SWG Copper Earth Wire. including crimping	per m	5		
3	4 Core x 6 sq.mm Copper armoured cable with 1 no. of 12 SWG earth wire from MPP to AC DB.	per m	0		
4	10 Sq.mm x 2 nos Copper PVC insulated wire from UPS output to UPS DB with 1 no of 6 sq.mm Copper earth wire.	per m	12		
5	25 sq.mm x 4 nos of lead wire from meter to Main switch in Meter room.	per m	5		
6	2x4 sq.mm +1x1.5 sq.mm thru M.S conduit from main panel to glow sign Board	per m	5		
7	3.5 Core 50 sq.mm PVC insulated Alu armoured cable with 2 nos 8 SWG G.I. wire as running earth.	per m	8		
TOTAL SECTION B					
SECTION - C					
LIGHT POINT with WIRING					
Note: The point mention below is inclusive of circuit wiring. Aa Switch boards should be connected with separate circuit from main panel					
Point wiring with 1100 V grade 3 nos. single core 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 PVC Conduits of 25mm/20mm of 16 gauge thickness (ISI marked embossed on conduit surface) complete with junction box, circular box, elbows, bends, couplers and other accessories 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 also includes circuit wiring with 1100 V grade 2 nos. single core 2.5 sq.mm. (1 for phase and 1 (Black colour) for neutral) + 1 no. single core 1.5 sq.mm. (Green colour for earth) PVC insulated flexible (FRLS) copper conductor cable (IS:694) through suitable size PVC. conduit as described above from DB to switch board, interconnection, mending good all damages to original finish, painting etc. as required to be completed in all respect. All connections of wires to be done by means of "Wago" type connectors. (All wiring in strong room, locker room, records & stationery room will be of surface conduit type).				
1	Primary Light Point	nos	18		
2	Wall Bracket Fan Point with 2/3 Pin socket (to be installed at Fan height and switch)	nos	10		
3	Ceiling Fan Point with supply and fixing of 2 Module step regulator/dimmer (280 W min)	nos	3		
4	Exhaust Fan Point	nos	3		
5	Call Bell Point with Push Bell (Indicator Type or Ding Dong)	nos	1		
6	1x6A 2/3 pin shuttered socket with switch on separate switch board other than fan/light switch board.	nos	5		
7	1x6A 2/3 pin shuttered socket with switch on separate switch board on than fan/light switch board.	nos	5		
8	1x16A 5 pin shuttered socket with switch on separate switch board on than fan/light switch board.	nos	4		
9	AC POWER POINT with WIRING: -	Each	5		
	A.C. power point wiring from DB with 1100 volt grade 2 Nos. single core 4 sq.mm. + 1 No. 2.5sq.mm. (Green colour for earthing) PVC insulated flexible FRLS copper conductor cable through suitable size M.S. conduit (ISI marked embossed on conduit surface) complete with junction box, circular box, elbows, bends, couplers and other accessories on surface above false ceiling or concealed by chase cutting on wall. The work includes supply & fixing by chase cutting on wall, 'North-West' make A.C. power unit having 25A 3 pin socket with matching plug, 20A Starter in sheet steel enclosure with 4 module plate, mounting box complete with interconnection, mending good all damages to original finish, painting etc. as required. All connections of wires to be done by means of 'Wago' type connectors.				
10	Supply and fixing of 16/6A 6 pin shuttered socket outlet with switch & indicator, mounting box and suitable size front plate on wall just opposite to Switch Board of Strong Room / Locker Room and supply of 1.1 KV grade 3 core 2.5 sq.mm. round PVC insulated and PVC sheathed flexible copper conductor cable of 1.5 meter length having one (1) no. 16A 3 pin plug at one end and the other end will be permanently connected to the Switch Board inside the room including interconnection, chase cutting, mending good all damages to original finish, painting, etc. as required.	NO	1		

TOTAL SECTION C			
SECTION - E			
LIGHT FIXTURE: -			
Supplying, Installation, Testing & Commissioning of following light fixtures complete of approved make as per specification with all fitting, accessories such as Junction Box, Hardware, Starter, Connector, Lamps, Tube etc. fittings and make as mentioned below consist of electronic ballast & color 84 PL tube with direct & indirect lighting, all fitting, accessories such as Chain Link Support on Ceiling/ wooden framework approved by Architect. (Before Installation Sample must be shown to Architect)			
a	PHILIPS MAKE RC 3808 LED 25 6500 PS OD WH	Nos	13
b	PHILIPS MAKE DN 191B LED 6S -6500 PSU WH	Nos	0
c	PHILIPS MAKE ASTRA BN150W LED 13S-6500 PSE OD GR	Nos	6
6	CROMPTON CEILING FAN 1200MM dia, white colour with all accessories.	no	0
7	300mm Exhaust fan with all accessories with mounting ring and louver Complete(white colour only) GEC make.	no	5
8	400mmdia wll bracket fan with all accessories (White Colour Only)	no	6
9	Supplying and fixing on wall call bell buzzer (approved by Consultant) suitable for 240 volt single phase A.C. supply including interconnection, etc. as required.	no	1
TOTAL OF SECTION -E			
SECTION - F			
TELEPHONE CABLING: -			
1	S/I/T/Commissioning of 20 pair telephone unarmoured cable from service point to Krone Box	per m	15
INCLUDING CONDUIT/CASING CAPPING (Make - Finolex / Delton / Polycab)			
2	<u>TELEPHONE JUNCTION BOX</u>		
	Supply and fixing of 25 pair telephone junction box "Krone" make on wall /furniture/partiion with hinged cover and screwed type tag strips complete with chase cutting, mending good, painting etc. as required. Inc (Make - Krone type Delton / ITL)	per nos	1
3	<u>TELEPHONE WIRING</u>	per m	100
	Supplying and laying of 2 paid 0.50 mm dia Telephone cable through pre - laid rigid PVC conduit as shown in the drawing or otherwise as directed by the consultant from Telephone Junction box to Telephone socket outlet including interconnection, mending good, etc, as required to be completed in all respect. including conduit		
4	<u>TELEPHONE SOCKET</u>	per nos	4

	Supply and fixing on wall / furniture / partition recessed type Legrand/North - West/Novar make Telephone socket outlet (RJ 11) with mounting box & front plate as shown in the drawing complete with chase cutting, mending good etc. as required.				
	TOTAL OF SECTION - F				
	SECTION - G				
	MISCELLANEOUS WORK: -				
3.5.1	Earthing the installation as per I.E. rules conforming to IS:3043-1987 or its latest amendment by making earth station with 600mm x 600mm x 6mm (minimum) thick copper plate electrode to be installed such that its top edge shall be at a minimum depth of 3.0 metre below ground level after preparation of ground with charcoal and salt and connecting the 25mm x 6mm copper earth lead-in-strip (upto 10 metre length) by bolting and then brazing to the copper plate complete with copper bolts of suitable length double nuts and washers including supply and fixing of 50mm dia. partly perforated G.I. pipe with funnel for watering arrangement. The copper earth lead-in-strip shall be PVC sleeved / insulated throughout the total length and the underground portion to be laid through suitable size heavy duty rigid PVC conduit (ISI mark embossed on conduit surface) at an average depth of 500mm below ground level.				
	The earthing installation should be provided with 300mm x 300mm and 300mm depth inside dimension masonry inspection pit with C.I. hinged cover having locking arrangement and restoring the surfaces duly rammed	Each	2		
3.5.2	Earth lead-in-strip exceeding 10 metre length as mentioned in item no. 3.5.1. with supply and fixing of 25mm x 6mm copper strip having PVC sleeved / insulated to be fixed on wall surface with tinned copper bar saddles / clamps at an interval of 300mm etc. as required to be completed in all respect. Minimum clearance between wall surface and copper earth lead-in-strip should be 6mm.	Mtr.	15		
	TOTAL OF SECTION - G				
	SUMMARY				
	TOTAL SECTION A				
	TOTAL SECTION B				
	TOTAL SECTION C				
	TOTAL SECTION E				
	TOTAL SECTION F				
	TOTAL SECTION G				
B	ELECTRICAL GRAND TOTAL				

DATA CABLING AND COMPUTER POINTS			
	COMPUTER SOCKET POINT: - (thru UPS supply only)	Set	7
	Computer socket outlet cluster point wiring with 1100 V grade 3 nos. single core (1 for earth, green colour) 1.5 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		
	3 nos. 6A modular type controlling switch		
	1 no. 16 /6A 6 pin modular type shuttered socket		
	1 no. 16A modular type controlling switch		
	1 no. Front cover of suitable size		
	1 no. Mounting box of suitable size		
	Note:- All power supply 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.		
3.3	UPS Power Distribution Board	nos	1
	4 Way TPN DB consist of		
	Incomer: -63 Amps DP MCB - 1 No.		
	<u>Outgoing</u> : - 10/16 Amps SP MCB - 14 Nos.		
3.4	UPS INPUT/ OUTPUT consist of	nos	4
	63 Amps/40 Amps DP MCB in MS enclosure box		
	SECTION - G		
	MISCELLANEOUS WORK: -		
	COMPUTER POINTS		
1	DATA CABLING (including conduit casing capping)		
2	SUPPLY & INSTALLATION OF CAT 6 UTP CABLE	per m	200
3	CAT 6 INFORMATION OUTLET WITH FACE PLATE	per no	7

4	24 PORT CAT 6 JACK PANNEL (EXISTING)	per no	1		
5	3 FT. PATCH CORD CAT 6	per no	7		
6	7 FT. PATCH CORD CAT 6	per no	7		
7	24 PORT 10/100 FAST ETHERNET SWITCH (EXISTING)	per no	1		
8	12 U WALL MOUNTING 19" STANDARED NETWORKING RACK (EXISTING)	per no	1		
TOTAL DATA +COMPUTER POINTS					

