

RBO VIDISHA , REGION-3**BOQ FOR ELECTRICAL/CABLING/ WIRING & FITTINGS & AC WORKS****INCLUDING INSTALLATION OF 10 Nos. Acs****(All items/specifications should be read as per Bank's specification)**

	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PART-A ELECTRICAL WIRING				
1	Supply and erection of m.s. sheet steel enclosure of 16 SWG dust and vermin proof to be installed on Angle Iron frame of proper size suitable to accommodate 500 V T.P.N. electrolytic copper bus bar of 50x5 mm (3 Nos.)and 19x3mm one No complete in all respect as required. The control panel will also consist of the under noted switch gears INCOMING 160 A 40 KA 4-pole MCCB of Havells/ L&T make. OUTGOING (i) 100Amp MCCB -2 No (ii) 63Amp TPN MCB - (1 No. Spare) (iii)Voltmeter, Ampere Meter with K.E.C/Esma make rotary switch with C.T. Coil Etc. (iv) 160A Changeover (with busbar)	set	1.00		
2	Supply & Installation of SDP(Surge Protector Device) for general protection of main Distribution Board Legrad Make Cat No. 412247 (3P+N) , 40 KA, T2- I max 40KA/pole with complete wiring.	nos.	1.00		
3	Removal and dismantling of all existing old wiring, switch gears, DBs, changeover, main switch, light/fan fixtures including LAN cabling/fittings and re-installation of the same as per directions	LS	0.00		
4	ELECTRICAL WIRING(light/fan) with 3x1.5 multistrand Cu-conductor. The item includes circuit wiring from DB to Switch board with 3x1.5 Cu-conductor(HAVELL'S, Fenolex/Polycab/RRKABELS)				
(a)	Providing and fixing of point wiring with above specifications. One light point controlled by one switch. Cost includes wiring.	nos.	30.00		
(b)	Providing and fixing of point wiring with same above specifications. Two light points to be controlled by one switch. Cost includes wiring.	nos.	0.00		
(c)	Providing and fixing of ceiling fan point controlled as under one 6 amp switch one no stepped electronic regulator of two module type.Cost includes wiring.	nos.	12.00		
(d)	Providing and fixing of separate power point controlled as under one 6 amp switch with 3x2.5 multistand cu-conductor. Cost includes wiring.	nos.	6.00		
(e)	providing and fixing 6 Amps Plug Points with same specs as above and install along with same light switchboard.	nos.	10.00		
(f)	Master switch of 16 Amps(Only Grey/Golden/Wooden colour other than white colour) to install along with same light switch board to control all light as a master switch excluding cost of wiring. ON/OFF in each switch board	nos.	8.00		
5	Supply and Installation of 8 way SP D.B.(for computer points) 6A Per way with controlling ELCB of 20A 300 mm sensitivity complete in all respects as required with interconnection MDS/Havells make.(Double Door).	nos.	3.00		
6	Supply and Installation of 12 way SP D.B.(for computers points) 6A Per way with controlling ELCB of 20A 300 mm sensitivity complete in all respects as required with interconnection MDS/Havells make.(Double Door).	nos.	3.00		

7	Supply and Installation of 6 way TPDB (For power POINTS & LIGHTS) consisting of the following components. a) 63A four pole MCB - 1No. b) 10/16/32A SPMCB – 18 Nos. to be installed on proper size of angle Iron Frame to be grouted on wall complete in all respects with interconnection as required (Havell's / Standard).	nos.	1.00		
8	Supply and Installation of 4way TPDB (For System Room) consisting of the following components. a) 63A four pole MCB - 1No. b) 16A/32A SPMCB – 12 Nos. to be installed on proper size of angle Iron Frame to be grouted on wall complete in all respects with interconnection as required (Havell's / Standard).	nos.	1.00		
9	AC / Geyser power Point : Supply, Installation, Testing and commissioning of the surface / recess mounting A.C. / GEYSER power point excluding cost of wiring. with the following : Plug and Socket DBs with one nos 20 Amp SP MCB, 20 Amp plug and socket with complete Enclosure plate and box.- 1 set i/c electrical connections and making good all the damages, painting, cleaning the site etc complete including all accessories as required as per site requirement and as directed by Bank Engineer. OR Modular 32A DP 1 way switch with plate & box 1 set. + 25A & 10A twin socket (Only one point is connected with one circuit as mentioned below)	nos.	10.00		
10	Computer Power Point: Supply and fixing of computer socket cluster consisting of following components(MK NORTH WEST) a) 3Nos. Modular 5A switch. b) 3Nos. 3Pin Socket excluding cost of wiring.	nos.	36.00		
11	<u>UPS OUTGOING AND OTHER WIRING (As per requirement and direction of E/I)</u>				
(a)	3 x 10 Sq mm copper multistreand wire in 25 mm 16 SGW (MMS) steel conduit.(UPS INPUT DB TO UPS)	Mtrs.	50.00		
(b)	3 x 6 Sq mm copper multistreand wire in suitable size of 16 SGW (MMS) steel conduit.	Mtrs.	30.00		
(c)	3 x 4 Sq mm copper multistreand wire in suitable size of 16 SGW (MMS) steel conduit.	Mtrs.	120.00		
(d)	3 x 2.5 Sq mm copper multistreand wire in suitable size of 16 SGW (MMS) steel conduit.	Mtrs.	60.00		
(e)	3 x 1.5 Sq mm copper multistreand wire in suitable size of 16 SGW (MMS) steel conduit.	Mtrs.	350.00		

12	COPPER PLATE EARTH STATION: Preparation of the Plate Earth Station:(As per IS:3043) Excavation of hard rocky earth, soft murrum, hard murrum etc and back filling with black cotton soil for the earth station, the earth pit size is 1000 mm X 1000 mm X 2500 mm. Supply and fixing of Copper Plate of Size 600 mm X 600 mm X 3.0 mm thick. Fixing of 50 mm X 6 mm, 3 Mtrs copper strips from Copper Plate to earth terminal including brazing/welding at plate etc. Supply and laying in position 19 mm, 2 Mtrs G.I "B" Class pipe for watering with reducer/funnel with mesh. Supply and Fixing of the following in the earth station. 75 Kg. Charcoal. 15 Kg. Original Salt. Black Cotton soil of adequate amount. (f) Construction of earth pit chamber including necessary brick work concrete, plastering, S/F of C.I Cover of size 12" X 12" complete as per site	nos.	2.00		
13	10 Sq. mm wire for earth station: Supply and laying of 10 Sq. mm 650V/1100 V PVC grade insulated copper wire in 15 mm G.I. Pipe ISI grade including all accessories complete as required.(Dedicated Earthing for UPS output DB only)	Mtrs.	50.00		
14	Copper strip : Providing and fixing Copper/GI strip as per specification complete including connection to earth electrode revetting/sweating/soldering, burying 15 cms below in all types of soil/rocks etc complete as required. (a) Copper Strip 25 X 5 mm	Mtrs.	20.00		
15	Supply and installation of 200A / 415V KIT-KAT (Porcelain type) on minimum 12mm thick wooden board	set	1.00		
16	Supplying and laying of 4 x 16 sq. mm PVCA armoured cable (Golster/NICCO/ Havells) from pole to panel	Mtrs.	90.00		
17	Supplying and laying of 4 x 25 sq. mm PVCA armoured cable (Golster/NICCO/ Havells) from pole to panel	Mtrs.	60.00		
18	Supplying and laying of 3.5-core x 50 sq.mm PVCA armoured cable (Golster/NICCO/ Havells) from pole to panel	Mtrs.	60.00		
19	Supplying and laying of 3.5-core x 70 sq. mm PVCA armoured cable (Golster/NICCO/ Havells) from pole to panel	Mtrs.	40.00		
	TOTAL OF PART -A	Rs.			
	<u>PART-B. SUPPLY AND INSTALLATION OF LAN COMPONENTS.</u>				
20	Supplying and installation of Cat6 D patch Cord – 1.0m, D-Link	no.	50.00		

	<p>COMPUTER POINT WITH DATA CABLING FOR LAN(Primary points):- Providing, fixing, testing and commissioning of all nodes of four pair UTP CAT 6 LAN cables length up to 30 meter length or less as per site condition in suitable size 20/25 mm dia, 16 SWG wall thickness rigid PVC conduit with conduit accessories like bend/junction box/ fan box etc on surface/recessed manner and making good all the damages, painting, cleaning the site etc complete as required as per site condition and as directed as required. Junction box should be covered with Stainless steel plate with screw with gasket for protection of water/dust. Providing, fixing, testing and commissioning of modular type Information Outlets with suitable size of MS/PVC modular boxes complete, all accessories with insulation displacement connectors etc suitable for CAT 6 UTP cabling with RJ-45 socket with testing and commissioning of STP cabling with scanner for all the nodes/switches/jack panel complete (Each point/circuit/cable from both load and source end to be marked with ferrules.) Make of Material:- (i) Data Cable, Cat 6 cable, Switch, Jack panel, Rack, Patch cords & Other accessories:- D-Link, Legrand</p>	Nos.	40		
21	<p>COMPUTER POINT WITH DATA CABLING FOR LAN(Secondary points):- Providing, fixing, testing and commissioning of all nodes of four pair UTP CAT 6 LAN cables length upto 30 meter length or less as per site condition in suitable size 20/25 mm dia, 16 SWG wall thickness rigid PVC conduit with conduit accessories like bend/junction box/ fan box etc on surface/recessed manner and making good all the damages, painting, cleaning the site etc complete as required as per site condition and as directed as required. Junction box should be covered with Stainless steel plate with screw with gasket for protection of water/dust.</p>	Nos.	10		
22	<p>24 PORT PATCH PANEL:- Supply and installation of 24 port patch panel(100 base TX CAT6 patch /jack D-link equivalent approved by the bank connection etc as required. All complete job as per the standard specification as direction of the Bank.</p>	Nos.	1		
23	<p>16 PORT PATCH PANEL:- Supply and installation of 24 port patch panel(100 base TX CAT6 patch /jack D-link equivalent approved by the bank connection etc as required. All complete job as per the standard specification as direction of the Bank.</p>	Nos.	1		
24	<p>8 PORT PATCH PANEL:- Supply and installation of 24 port patch panel(100 base TX CAT6 patch /jack D-link equivalent approved by the bank connection etc as required. All complete job as per the standard specification as direction of the Bank.</p>	Nos.	1		
25	<p>9U Rack: Providing, assembling, fixing, testing and commissioning Floor/Wall mounted RACKS for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessary complete. 9 U wall mounted RACK</p>	Nos.	1		
26	<p>6U Rack: Providing, assembling, fixing, testing and commissioning Floor/Wall mounted RACKS for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessary complete. 9 U wall mounted RACK</p>	Nos.	1		

27	TELEPHONE POINT :- Two pair, 0.61 mm dia. telephone cable tinned copper conductor, P.V.C. insulated and sheathed , fire retarding, anti termite, colour coded twisted pairs and rip cord, Double outlet The length of telephone cable up to 35 meter length or less as per site condition with shutter modular type Telephone Outlets (RJ — 11) with suitable size MS / PVC modular boxes and it laying, fixing, testing and commissioning in suitable size 20/25 mm dia,16 SWG (Medium Gauge) thickness rigid PVC conduit with conduit accessories like bend/junction box/cover plate/sheet steel/PVC box on surface/ concealed manner i/c electrical connections and making goods all the damages,re plastering, painting, cleaning the site etc complete as required as per site condition. The floor/roof/wall junction box should be of MS(heavy duty) box of suitable size and covered with Steel finish Steel cover sheet by screw tight and gasket to avoid water/dust insertion. Make of Material:- Delton/Finolex/RR cable	Nos.	8		
28	10 cowl box pair : Supply and installation of 10 pair cowl box as per directions	Nos.	1		
29	TV POINT : Supply, installation, testing and commissioning of TV point(Modular) with RG-6 cable in the Medium Gauge 1.6 mm PVC Conduit with all accessories complete in all respect	Nos.	2		
TOTAL OF PART-B		Rs.			
PART-C. SUPPLY AND FITTING OF ELECTRICAL FITTINGS					
30	LED LUMINARS (2' x 2') FULL GLOW TYPE: LED light fittings (600 X600mm) dimension suitable for grid/gypsum ceiling complete with its electronic driver as required per instruction of Bank's Model No are as under:- PHILIPS:- RC380B G2 LED 35S-6500 PSU OD WH LED (FULLGLOW) WIPRO:- CRCO1ORO 38 HP57 HAVELLS:- LHECDIL7IL1W036 (Edge- Lit) CG:- LCTAR3-40-CDL	Nos.	50.00		
31	LED LUMINARES:- 1 x4' (FULL GLOW TYPE) LED light fittings (300 X1200mm) dimension suitable for grid/gypsum ceiling complete with its electronic driver as required per instruction of Bank's Model No are as under:- PHILIPS:- RC380B G2 LED 35S-6500 PSU OD WH LED (FULLGLOW) WIPRO:- CRCO1ORO 38 HP57 HAVELLS:- LHECDIL7IL1W036 (Edge- Lit) CG:- LCTAR3-40-CDL	Nos.	6.00		
32	LED DOWNLIGHTER: 15 Watt, recessed mounted circular down lighter , 6 dimension with complete its electronic driver are as under:- PHILIPS:- GREENLED-DN193B LED-12S-6500 PSU WIPRO:- IRIS LED LD 71-121-XXX-50-XX HAVELLS:- LHEBJNP ZPZ 1W 015(ENDURA LOW DEPTH) CG:- LC DD-15-CDL,	Nos.	60.00		
33	External LED Light- Providing & Fixing of 30 watt LED light fixture, pressure die cast aluminium housing, heat resistant glass, IP 65 protection & better optics for uniform distribution. PHILIPS, WIPRO, HAVELLS, CG	Nos.	2.00		
34	LED Spot Light , 3 Watt, 2/3 (Inches) size as per site requirement. PHILIPS, WIPRO, HAVELLS, CG	Nos.	6.00		
35	LED cove/strip as per site requirement. PHILIPS, WIPRO, HAVELLS, CG	Mtr.	120.00		
36	OLD LED LUMINARS (2' x 2') re- fittings (600 X600mm) as required per instruction. (FULLGLOW) WIPRO:- CRCO1ORO 38 HP57 HAVELLS:- LHECDIL7IL1W036 (Edge- Lit) CG:- LCTAR3-40-CDL	Nos.	0.00		

37	Digital Clock :Providing & fixing of "Digital Clock" /Digital Panel indicating Time, Day, Date, Temperature at outside of big size,(Ajanta - OLC-1070) as suitable over the facade as advised by the Bank with standard power back up. Make:- Ajanta, Titan	Nos.	1.00		
38	Wall Fan : Supplying and fixing of 400mm sweep wall fan as per bank's specification	Nos.	6.00		
39	Ceiling Fan : Supplying and fixing of 1200mm sweep ceiling fan as per bank's specification	Nos.	12.00		
40	Exhaust Fan : Supplying and fixing of exhaust fan as per bank's specification	Nos.	2.00		
	TOTAL OF PART-C	Rs.			
	PART- D AIR-CONDITIONING WORK				
41	2.0 T Cassette AC :Supply, installation, testing and commissioning of Higher Efficient models of CASSETTE TYPE AIR CONDITIONERS(Two) 2.0 Ton Machines confirming to latest Indian Standards and suitable for operation on 230 Volts + 10 % , three Phase, 50 Hz AC supply with Scroll compressor, Refrigerant and capable to perform cooling, dehumidifying, Air Circulating, auto mode, auto swing, anti bacteria filtering, ventilation and with remote control with Cool/Fan/Dry/Auto mode, sleep mode & on/off timer with suitable thermostat. The rate should include installation charges after making appropriate changes in existing false ceiling. Heavy ready made/fabricated M S Stand to house the out door unit as per site conditions including carpentry work, minor civil work and material including copper piping of hard & prime quality of min. 22 G up to 5 meters with class "o" Nitrile insulation 12mm , cabling from indoor to outdoor unit, heavy gauge PVC drain piping with insulation as per site requirement. The copper piping, drains piping and electrical cabling should be fixed with clamps and no loose piping/cabling is allowed. The rates inclusive of all repairs of civil and carpentry work The out door unit should be anti-rust powder coated. The cost includes original fill and additional top up of refrigerant gas as per site condition. The rate inclusive of all chisel work, plastering, finishing, painting & all civil related work pertaining to mentioned work. Make of ACs:- Daikin/Hitachi/Voltas/Bluestar/Carrier only	Nos.	8.00		
42	1.5 T Split AC : Supply and installation of 1.5 T split Air-conditioner of Voltas /Blue Star/Carrier make (3 star ratings) including cost of stand for outer unit. Cost of additional Cu pipe, and cable if required will be considered as per as per actual market rates. Installation of indoor units & out door units should be done as per direction of the Bank/EI	Nos.	2.00		
43	1.0 T Split AC : Supply and installation of 1.5 T split Air-conditioner of Voltas /Blue Star/Carrier make (3 star ratings) including cost of stand for outer unit. Cost of additional Cu pipe, and cable if required will be considered as per as per actual market rates. Installation of indoor units & out door units should be done as per direction of the Bank/EI	Nos.	0.00		

44	Cu-pipe: Supply and installation of soft & prime quality of min. 22 G Copper pipe for " Cassette AC only " with class "o" Nitrile insulation of minimum 12mm for split air conditioner including interconnection power/ communication cable between indoor and outdoor unit as per site requirement. (If required additionally, payment will made as per actual installation. The rate inclusive of all chisel work, plastering, finishing, painting & all civil related work pertaining to mentioned work. Make of Insulation:- Superlon/Aflex/Armacell/Kflex Make of cable:- Finolex/RR/Havells	Mtrs.	180.00		
45	Cu-pipe: Supply and installation of soft & prime quality of min. 22 G Copper pipe for " Split AC only " with class "o" Nitrile insulation of minimum 12mm for split air conditioner including interconnection power/ communication cable between indoor and outdoor unit as per site requirement. (If required additionally, payment will made as per actual installation. The rate inclusive of all chisel work, plastering, finishing, painting & all civil related work pertaining to mentioned work. Make of Insulation:- Superlon/Aflex/Armacell/Kflex Make of cable:- Finolex/RR/Havells	Mtrs.	50.00		
46	Drain Pipe: (If Required additional) applicable to both ACs(Cassette & Split AC). Supply and laying of heavy gauge PVC drain piping of 40mm with insulation as per site requirement with its all accessories like bend, solution etc as per site condition. The rate inclusive of all chisel work, plastering, finishing, painting & all civil related work pertaining to mentioned work. (If required additionally, payment will made as per actual installation.) Make:- Kasta/supreme	Mtrs.	300.00		
TOTAL OF PART-D		Rs.			
PART-A ELECTRICAL WIRING		Rs.			
PART-B. SUPPLY AND INSTALLATION OF LAN COMPONENTS.		Rs.			
PART-C. SUPPLY AND FITTING OF ELECTRICAL FITTINGS		Rs.			
PART- D AIR-CONDITIONING WORK		Rs.			
TOTAL= (A + B + C +D)					
Plus GST as applicable					

Amount in words/.....

Signature of the Vendor
Seal

