

TENDER DOCUMENT

ELECTRICAL WORK B.O.Q. FOR PROPOSED INTERIOR RENOVATION OF ZONAL OFFICE FOR PUNE EAST ZONE, BANK OF MAHARASHTRA AT BANK'S OWN PREMISES AT HADAPSAR I.E., HADAPSAR, PUNE

VOLUME 2 - PRICE BID (Electrical works)

Client :

PUNE EAST ZONE - BANK OF MAHARASHTRA

568 - Kesari Wada, Narayan Peth, Pune - 411 030



NARENDRA SARDESHPANDE & ASSOCIATES
Architects

43, "Shreekul", Flat No. 2, Ground Floor, United Western Housing Society, Near Tathawade Garden, Karvenagar, Pune - 411 052
Telephone: (020) 25454297 E-mail : nsapune1@gmail.com

PRICE BID FOR THE ELECTRICAL WORKS AT HADAPSAR I.E. OFFICE OF P.E.Z. FOR BANK OF MAHARASHTRA.

BANK : BANK OF MAHARASHTRA

PROJECT : PROPOSED INTERIOR RENOVATION OF ZONAL OFFICE FOR P.E.Z.

ADDRESS : HADAPSAR I.E., PUNE (OWN PREMISES)

PRICE BID

SUMMARY FOR ELECTRICAL WORKS			
Sr.No	DESCRIPTION OF ITEM	SUB TOTAL	TOTAL
I	MAIN PANEL / DBs / MCCBs	∴	
II	POWER MAINS CABELS & CABLE TERMINATIONS	∴	
III	POINT WIRING	∴	
IV	FLOOR -RACE WAYS AND FLOOR JUNCTION BOXES	∴	
V	CABLE TRAYS	∴	
VI	LIGHTING FIXTURES & FANS	∴	
VII	PVC CONDUITS & PVC CASING CAPPINGS	∴	
VIII	EARTHING	∴	
IX	MUSIC - CUM - PA - SYSTEM	∴	
X	MISCELLANEOUS ELECTRICAL WORKS	∴	
A	Total Amount for Electrical Works		∴
XI	TELEPHONE / VOICE CABLING AND OUTLETS	∴	
XII	COMPUTER DATA CABLING AND INFORMATION OUTLETS	∴	
B	Total Amount for Data / Voice / Telephone System cabling		∴
	TOTAL AMOUNT		∴
GRAND TOTAL			GST 18%
Amt. in words-			

Sign & Seal of the Contractor -

Name & Address of the Contractor -

PRICE BID FOR THE ELECTRICAL WORKS AT HADAPSAR I.E. OFFICE OF P.E.Z. FOR BANK OF MAHARASHTRA.

Sr.	Description	QTY	Unit	Rate	Amount
I	MAIN PANEL / DISTRIBUTION BOARDS / MCCBs :-				
1.0	Meter room Mains MCCB's				
1.1	Supplying & Installing 400A, MCCB in sheet metal enclosure <i>Rupees</i>	1	Nos.		
1.2	Supplying & Installing 200A, MCCB in sheet metal enclosure <i>Rupees</i>	0	Nos.		
1.3	Supplying & Installing 160A, MCCB in sheet metal enclosure <i>Rupees</i>	1	Nos.		
1.4	Supplying & Installing 125A, MCCB in sheet metal enclosure <i>Rupees</i>	0	Nos.		
1.5	Supplying & Installing 100A, MCCB in sheet metal enclosure <i>Rupees</i>	0	Nos.		
2.0	MAIN POWER PANELS :- Supplying & Installing Main LT panel, wall mounted front operated totally enclosed vermin proof, indoor non-drawout-cubicle type power panel fabricated out of 2mm thk CRCA sheet having gasketed hinged cover on each cubicle fully powder coated after 7 Tank treatment, incorporating horizontal & vertical sleeved copper busbars, complete with all internal wiring, danger board, 2 earthing legs, cable chamber etc as required, housing below mentioned switch gears / meter / Terminals, Hardware, Lugs, Name plates, Door locks / Capacitor ventilation fans etc (GA drawing of the panel got to be approved by Bank / Architect)				
2.1	MAIN POWER DISTRIBUTION PANEL :-	1	SET		
	Incomer				
a	400 A TP, MCCB with ELR (0-3A) and CBCT	1	Nos		
b	400 A TPN, PVC insulated Copper busbars of size 60 mm x 6mm thick	1	Set		
c	R-Y-B, LED Type indicating lamps with control fuses	1	Set		
	Metering				
a	Digital Load Manager / Multifunction V-I-PF-Hz Meter	1	Set		
	Complete with necessary CTs, control fuses etc	1	Set		
	Outgoing				
a	200 A TP, MCCB, 36kA for AMF / DG Panel	1	Nos		
b	80 A TP, MCCB, 36kA for APFC Section	1	Nos		
c	63 A TPN, MCCB outgoing, for Gnd flr AC DB	1	Nos		
d	63 A TPN, MCCB outgoing, for Mez flr AC DB	1	Nos		
e	100 A TPN, MCCB outgoing, for 1st flr AC DB	1	Nos		
f	100 A TPN, MCCB outgoing, for 2nd flr AC DB	1	Nos		
	Utility Section :				
g	40/63A FP, ELCB (100mA) sub-incomer	1	Nos		
h	20/25 A SP, MCB outgoing	12	Nos		
	APFC / Capacitor Panel Section :				
a	4 step suitable APFC relay	1	Nos		
b	Auto/Manual Switch	1	Set		
c	50 A TP Capacitor duty contactor	2	Nos		
d	25 A TP Capacitor duty contactor	2	Nos		
e	40 A TP MCB	2	Nos		
f	32A TP MCB	2	Nos		
g	20 kVAR Power Capacitors	1	Nos		
h	15 kVAR Power Capacitors	2	Nos		
i	5 kVAR Power Capacitors	1	Nos		
j	125 A TPN, PVC insulated Copper busbars of size 20 mm x 5mm thick	1	Set		
k	ON/OFF/TRIP push button for each capacitor	4	Set		
l	ON/OFF/TRIP indication LED Type lamp for each capacitor	4	Set		
m	R-Y-B, LED Type indicating lamps with control fuses <i>Rupees</i>	1	Set		

PRICE BID FOR THE ELECTRICAL WORKS AT HADAPSAR I.E. OFFICE OF P.E.Z. FOR BANK OF MAHARASHTRA.

Sr.	Description	QTY	Unit	Rate	Amount
4.0	EMERGENCY / DG POWER DISTRIBUTION PANEL Supplying & Installing Emergency / DG Power panel, wall mounted front operated totally enclosed vermin proof, indoor non-drawout-cubicle type power panel fabricated out of 2mm thk CRCA sheet having gasketed hinged cover on each cubicle fully powder coated after 7 Tank treatment, incorporating horizontal & vertical sleeved copper bus bars, complete with all internal wiring, danger board, 2 earthing legs, cable chamber etc as required, housing below mentioned switch gears / meter / Terminals, Hardware, Lugs, Name plates, Door locks etc (GA drawing of the panel got to be approved by Bank / Architect)	1	SET		
3.1	Incomer				
a	200 A TP, MCCB with ELR(0-3A) and CBCT	1	Nos		
b	200 A TPN, PVC insulated Copper busbars of size 50 mm x 5mm thick	1	Set		
c	R-Y-B, LED Type indicating lamps with control fuses	1	Set		
3.2	Metering				
a	Digital Load Manager / Multifunction V-I-PF-Hz Meter Complete with necessary CTs, control fuses etc	1	Set		
3.3	Outgoing				
a	32/40 A TPN MCB outgoing, for LDBs	4	Nos		
b	40/63 A DP/ FP MCB outgoing, for UPS Input DBs	4	Nos		
c	32/40 A DP/ FP MCB outgoing, for ATM/ E LOUNGE DBs	2	Nos		
d	20/25 A SP, MCB outgoing for Server / E Lounge ACs	4	Nos		
	Rupees				
4.0	Wall mounted, sheet metal fabricated, powder coated, Double LIGHTING D.B. Supplying & Installing 8 way, TPN MCB type Double door Horizontal PPI wall mounted Distribution Board, sheet metal fabricated, powder coated, having dust-proof & vermin proof, gasketed & hinged door with all internals such as DIN rails, neutral-link, interconnected wiring, complete with following switch gear	2	SET		
a	40 A TPN, MCB incomer	1	Nos		
b	25 A DP, ELCB (100mA) sub-incomer	3	Nos		
c	10/16 A SP, MCB outgoing	18	Nos		
	Rupees				
4.1b	LIGHTING D.B. Supplying & Installing 6 way, TPN MCB type Double door Horizontal PPI wall mounted Distribution Board, sheet metal fabricated, powder coated, having dust-proof & vermin proof, gasketed & hinged door with all internals such as DIN rails, neutral-link, interconnected wiring, complete with following switch gear	2	SET		
a	40 A TPN, MCB incomer	1	Nos		
b	25 A DP, ELCB (100mA) sub-incomer	3	Nos		
c	10/16 A SP, MCB outgoing	12	Nos		
	Rupees				
4.2	AC Power D.B. Supplying & Installing 6 way, TPN MCB type Double door Horizontal wall mounted Distribution Board, sheet metal fabricated, powder coated, having dust-proof & vermin proof, gasketed & hinged door with all internals such as DIN rails, neutral-link, interconnected wiring, complete with following switch gear	4	SET		
a	63 A TPN, MCB incomer	1	Nos		
b	40 A DP, ELCB (100mA) sub-incomer	3	Nos		
c	20/25 A SP, MCB outgoing	12	Nos		
	Rupees				

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Sr.	Description	QTY	Unit	Rate	Amount
4.3a	UPS INPUT D.B. Supplying & Installing 12 way SPN MCB type Double door Horizontal wall mounted Distribution Board, sheet metal fabricated, powder coated, having dust-proof & vermin proof, gasketed & hinged door with all internals such as DIN rails, neutral-link, interconnected wiring, complete. (Earth bar inside this DB should be insulated from the body) UPS-INPUT DB for distribution of input power to UPSs as per following switchgears a 63 A FP, MCB incomer 1 Nos b 40/63 A DP, MCB, outgoing 3 Nos <i>Rupees</i>	1	SET		
4.3b	UPS INPUT D.B. Supplying & Installing 8 way SPN MCB type Double door Horizontal wall mounted Distribution Board, sheet metal fabricated, powder coated, having dust-proof & vermin proof, gasketed & hinged door with all internals such as DIN rails, neutral-link, interconnected wiring, complete. (Earth bar inside this DB should be insulated from the body) UPS-INPUT DB for distribution of input power to UPSs as per following switchgears a 63 A DP, MCB incomer 1 Nos b 40/63 A DP, MCB, outgoing 3 Nos <i>Rupees</i>	1	SET		
4.4a	UPS OUTPUT D.B. Supplying & Installing 12/16 way SPN MCB type Double door Horizontal wall mounted Distribution Board, sheet metal fabricated, powder coated, having dust-proof & vermin proof, gasketed & hinged door with all internals such as DIN rails, neutral-link, interconnected wiring, complete. (Earth bar inside this DB should be insulated from the body) UPS-OUTPUT DB for distribution to all computer power points on workstations, having following a 40/63 A DP, MCB, incomer 1 Nos b 16 A SP, MCB, outgoing 12 Nos <i>Rupees</i>	3	SET		
4.4b	UPS OUTPUT D.B. Supplying & Installing 8 way SPN MCB type Double door Horizontal wall mounted Distribution Board, sheet metal fabricated, powder coated, having dust-proof & vermin proof, gasketed & hinged door with all internals such as DIN rails, neutral-link, interconnected wiring, complete. (Earth bar inside this DB should be insulated from the body) UPS-OUTPUT DB for distribution to all computer power points on workstations, having following switchgears a 40/63 A DP, MCB, incomer 1 Nos b 16 A SP, MCB, outgoing 6 Nos <i>Rupees</i>	3	SET		
4.5	ATM / E-Lounge D.B. Supplying & Installing 8 way SPN MCB type Double door horizontal wall mounted Distribution Board, sheet metal fabricated, powder coated, having dust-proof & vermin proof, gasketed & hinged door with all internals such as DIN rails, neutral-link, interconnected wiring, complete with following switch gear a 40 A DP MCB, incomer 1 Nos b 10 A SP, MCB, outgoing, for ATM Lighting, 2 Nos c 20 A SP, MCB, outgoing, for Signage, 2 Nos d 20 A SP, MCB, outgoing, for ATM AC's 2 Nos <i>Rupees</i>	1	SET		

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Sr.	Description	QTY	Unit	Rate	Amount
4.6	AC Timer D.B. Supplying & Installing Timer DB for timed daily operation of ACs in the Server / ATM room complete with following accessories	2	SET		
a	40 A DP, MCB incomer	1	Nos		
b	16 A L & T make 24 Hour timer	1	Nos		
c	16 A Auto / Manual Switch	1	Nos		
d	25 A DP/TP heavy duty contactor	2	Nos		
e	20 A SP, MCB outgoing	2	Nos		
	<i>Rupees</i>				
4.7	Signage Timer D.B. Supplying & Installing Timer DB for timed daily operation of Signage / Glow sign board complete with following accessories	1	SET		
a	20 A DP, MCB incomer	1	Nos		
b	16 A L & T make 24 Hour timer	1	Nos		
c	16 A Auto / Manual Switch	1	Nos		
d	16 A DP/TP heavy duty contactor	1	Nos		
e	16 A SP, MCB outgoing	1	Nos		
	instead of Timer Twilight / Light Sensor Switch can be used Make : Hager Model : EE 702, Legrand :DX3 Luxo				
	<i>Rupees</i>				
4.8	Supplying & Installing 20A metal clad 3 pin socket with plug top along with 1no. 20A, SP MCB, all housed in sheet metal powder coated box for giving supply to A/C machines & vaults	24	Nos.		
	<i>Rupees</i>				
4.9	Supplying & Installing following MCBs in Powder coated sheet metal enclosures / water proof IP-55 enclosure for giving supply to HVAC machines / outdoor units / UPS-Stabilizer equipments etc.				
a	40/63 A DP MCB,	2	No.		
b	40/63 A FP MCB,	12	No.		
	<i>Rupees</i>				
SUB TOTAL FOR MAIN LT PANEL /DBs / MCCBs					
II	POWER MAINS CABELS & CABLE TERMINATIONS :				
1	Supplying & Laying 1100V grade armoured cable having sector / circular shaped aluminium / copper conductor PVC insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armoured and overall extruded PVC sheathed confirming to IS: 1554, laid on wall or ceiling using GI clamps and spacers as per route shown at site and further as directed by Bank / Architect in the following sizes.				
	Aluminium Armoured Cables				
1.1	3 1/2 C x 185 Sq.mm Aluminium AYFY Armoured Cables	30	Mts.		
	<i>Rupees</i>				
1.2	3 1/2 C x 120 Sq.mm Aluminium AYFY Armoured Cables	60	Mts.		
	<i>Rupees</i>				
1.3	3 1/2 C x 95 Sq.mm Aluminium AYFY Armoured Cables	0	Mts.		
	<i>Rupees</i>				
1.4	3 1/2 C x 70 Sq.mm Aluminium AYFY Armoured Cables	0	Mts.		
	<i>Rupees</i>				
1.5	3 1/2 C x 50 Sq.mm Aluminium AYFY Armoured Cables,	60	Mts.		
	<i>Rupees</i>				
1.6	3 1/2 C x 35 Sq.mm Aluminium AYFY Armoured Cables,	0	Mts.		
	<i>Rupees</i>				

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Sr.	Description	QTY	Unit	Rate	Amount
1.7	Copper Armoured cables 4C x 16 Sq.mm Copper YFY Armoured Cables, for AC DB & UPS Input <i>Rupees</i>	60	Mts.		
1.8	4C x 10 Sq.mm Copper YFY Armoured Cables <i>Rupees</i>	15	Mts.		
1.9	4C x 6 Sq.mm Copper YFY Armoured Cables, for LDB & Casset AC's <i>Rupees</i>	120	Mts.		
1.10	3C x 6.0 Sq.mm Copper YFY Armoured Cables <i>Rupees</i>	15	Mts.		
1.11	3C x 4.0 Sq.mm Copper YFY Armoured Cables, for Signage <i>Rupees</i>	30	Mts.		
1.12	2C x 10 Sq.mm Copper YFY Armoured Cables, for UPS DB <i>Rupees</i>	30	Mts.		
1.13	2C x 6 Sq.mm Copper YFY Armoured Cables, for UPS DB <i>Rupees</i>	30	Mts.		
1.14	2C x 4 Sq.mm Copper YFY Armoured Cables, for AC <i>Rupees</i>	120	Mts.		
2	Supplying & Installing end termination of above mentioned cables including Double Compression compression of suitable size, glands, crimping type coper lugs, flux, insulation tape, PVC Glands for Flexible cables etc. as required complete with earthing of glands in following sizes				
2.1	3 1/2 C x 185/120/95 Sq.mm Aluminium AYFY Armoured Cables <i>Rupees</i>	12	Nos.		
2.2	3 1/2 C x 70/50/35 Sq.mm Aluminium AYFY Armoured Cables <i>Rupees</i>	12	Nos.		
2.3	4 C x 16/10/6 Sq.mm Copper YFY Armoured Cables <i>Rupees</i>	36	Nos.		
2.4	3 C x 6/4 Sq.mm Copper YFY Armoured Cables <i>Rupees</i>	12	Nos.		
2.5	2 C x 10/6/4 Sq.mm Copper YFY Armoured Cables <i>Rupees</i>	48	Nos.		
SUB TOTAL FOR POWER MAINS CABLES & CABLE TERMINATIONS					
III	POINT WIRING				
1	Supply & Installation of concealed point wiring using 3 x 1.5 sq.mm size FRLS grade PVC insulated multistanded flexible copper wires (with proper R,Y,B,Bk,G color code) pulled through haevy gauge PVC conduits, with all necessary accessories, exposed in slab with fixing on G.I. spacers fixed with nettle fold wood screws with nylon plug complete with all conduit accessories G.I. saddles, PVC Sockets, Elbows, Bend, Junction Boxes Etc. Below false ceiling consealed wiring to be done, which also includes GI Gang box, modular Top Plate of suitable for modular type switches, Sockets, Regulators, & other accessories including 1.00 / 1.5 sq.mm Green coloured PVC insulated copper earth continuity conductor, including switches, sockets, Fan Regulator, Tel. Jack, TV Jack, Dummy Plates etc./ lamp holders, 3 plate ceiling rose / 3 core flexible copper chords, connectors, painting etc. as per instructions of Consultants / Architects. (The Cost of Lighting circuit, using 1.1 KV grade 3 x 2.5 sq.mm size FRLS PVC insulated multistanded flexible copper wires (with proper R,Y,B,Bk,G color code) pulled through heavy gauge PVC conduits, with all necessary accessories should be included in the cost of Point wiring)				

PRICE BID FOR THE ELECTRICAL WORKS AT HADAPSAR I.E. OFFICE OF P.E.Z. FOR BANK OF MAHARASHTRA.

Sr.	Description	QTY	Unit	Rate	Amount
1.1	Primary light points including the cost of 5A switch <i>Rupees</i>	200	Pts		
1.2	Secondary light points looped from the above point Light points other than primary light point, operated on same switch shall be treated as secondary Light Point <i>Rupees</i>	150	Pts		
1.3	5 A Socket point installed seperately as Primary point <i>Rupees</i>	60	Pts		
1.4	5A Plug point on switch board as Secondary point <i>Rupees</i>	60	Pts		
1.5	Ceiling Fan points Ceiling Fan operated on seperate switch shall be Controlled by 2 Module, Step type Fan regularator, Rate should be including the cost of Fan hook, Suspending suitable fan rod, Connecting cord and Step type Fan Regulator <i>Rupees</i>	12	Pts		
1.6	Exhaust fan point consisting of 5A socket near fan and switch on light switch board Each Exhaust Fan operated on seperate switch, Rate should be including the cost of 5 A 3 pin Plug top, Connecting cord and Mounting Plates <i>Rupees</i>	12	Pts		
1.7	Bell point consisting of 5A Modular Bell switch & Bell-Indicator <i>Rupees</i>	8	Pts		
1.8	Wiring for Signages with 2 X 2.5 Sq.mm. + 1 X 1.5 Sq.mm. PVC insulated multistanded FRLS Grade flexible copper wires / 3 core 2.5 sq.mm flexible cable drawn through Heavy gauge PVC conduit <i>Rupees</i>	2	Pts		
1.9	Supplying & Installing Primary 5/15 A Power Socket points using 2 X 4.0 Sq.mm. + 1 X 2.5 Sq.mm. PVC insulated multistanded FRLS Grade flexible copper wires (with proper color code) pulled through haevy gauge PVC conduits. Each point consisting of 1 Nos of 5/15 A sockets controlled by 1 Nos of 15A switch, wired together forming a point. Earth wire to be of Green colour only. Only 2 Sockets served by one circuit taken from LDB / PDB <i>Rupees</i>	12	Pts		
2.0	Supplying & Installing Secondary 5/15 A Power Socket points using 2 X 2.5 Sq.mm + 1 X 1.5 Sq.mm PVC insulated multistanded FRLS Grade flexible copper wires (with proper color code) pulled through haevy gauge PVC conduits. Each point consisting of 1 Nos of 5/15 A sockets controlled by 1 Nos of 15A switch, wired together forming a point. circuit taken from another Primary 15 A Power Socket Point <i>Rupees</i>	12	Pts		

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Sr.	Description	QTY	Unit	Rate	Amount
2.1	<p>Supplying & Installing Primary UPS or Stabilized Power points on workstations / tables for computers using 3C x 2.5 Sq.mm PVC sheathed white color flexible copper cable pulled through already laid floor raceways and taken upto table top using PVC rigid or flexible conduits run within wooden or metal partitions.</p> <p>Each point consisting of 3 Nos of 5 A 5 Pin sockets controlled by 1 No 15A switch, wired together forming one point. Earth wire to be of Green colour only.</p> <p>Only 4 tables served by one circuit from UPS DB. The Rate should be including the cost of Cable, Switch board internal looping wires, necessary Gang Box, PVC box, Modular Plate of other color, Modular Switches, Sockets, Compete Job with necessary screws, nylon plug, Saddles, hardware. Etc.</p> <p>Rupees</p>	40	Pts		
2.2	<p>Supplying & Installing Secondary UPS or Stabilized Power points on workstations / table for computers using 3C x 2.5 Sqmm Cu. PVC sheathed white color flexible cable pulled through PVC CASINGS / CONDUITS FROM CEILING & WALLS / PARTITIONS and taken upto table top using PVC rigid or flexible conduits run within wooden or metal partitions.</p> <p>Each point consisting of 3 Nos of 5 A 5 Pin sockets controlled by 1 No 15A switch, wired together forming one point.</p> <p>for 1 table served by the same circuit from adjascent Primary point. The Rate should be including cost of Cable, Switch board internal looping wires, necessary Gang Box, PVC box, Modular Plate of other color , Modular Switches, Sockets, Compete Job with necessary screws, nylon plug, Saddles, hardware. Etc.</p> <p>Rupees</p>	40	Pts		
2.3	<p>Supplying & Installing Primary RPS Raw Power points on workstations / table for computers using 3C X 2.5 Sqmm PVC sheathed Black color flexible copper cable pulled through PVC CASINGS / CONDUITS FROM CEILING & WALLS / PARTITIONS and taken upto table top using PVC rigid or flexible conduits run within wooden or metal partitions.</p> <p>Each point consisting of 1 Nos of 5/15 A Sockets controlled by 1 No 20A switch, wired together forming one point.</p> <p>Only 2 tables served by one circuit from RPS DB / LDB / PDB. The Rate should be including cost of Cable, Switch board internal looping wires, necessary Gang Box, PVC box, Modular Plate, Modular Switches, Sockets, Compete Job with necessary screws, nylon plug, Saddles, hardware. Etc.</p> <p>Rupees</p>	36	Pts		
2.4	<p>Supplying & Installing Secondary RPS or Raw Power points on workstations / table for computers using 3C x 2.5 Sqmm PVC sheathed Black color flexible copper cable pulled through through PVC CASINGS / CONDUITS FROM CEILING & WALLS / PARTITIONS and taken upto table top using PVC rigid or flexible conduits run within wooden or metal partitions.</p> <p>Each point consisting of 1 Nos of 5/15 A Sockets controlled by 1 No 20A switch, wired together forming one point.</p> <p>Only 1 table served by the same circuit from adjascent Primary point. The Rate should be including cost of Cable, Switch, Switch board internal looping wires, necessary Gang Box, PVC box, Modular Plate, Modular Switches, Sockets, Compete Job with necessary screws, nylon plug, Saddles, hardware. Etc.</p> <p>Rupees</p>	36	Pts		
SUB TOTAL FOR POINT WIRING					

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Sr.	Description	QTY	Unit	Rate	Amount
IV	FLOOR -RACEWAYS AND FLOOR JUNCTION BOXES :				
1	Supplying & Installing floor - raceways consisting of following sizes of 2mm thick rectangular aluminium anodized box sections including chasing and refilling as per the route shown in the drawing and as approved by consultant at site including clamping at every open pipe ends by suitable plastic end covers against entry of dust or any material.				
1.1	75 x 50 mm Aluminium raceways, 2 mm thick. <i>Rupees</i>		Mtr		
1.2	50 x 38 mm Aluminium raceways, 2 mm thick. <i>Rupees</i>		Mtr		
2	Supplying & Installing Galvanised floor junction boxes, fabricated out of 2.5 mm thick G.I. sheet with proper cutouts on the sides for pipe entry complete with SS brushed finish 14 SWG (2mm Thick) cover with rubber gasket, properly fixed with countersunk screws & top cover should have suitable knockouts for flexible conduit outlets as per requirements				
2.1	200 mm x 200 mm x 50 mm, 2 mm thick. Floor junction Box <i>Rupees</i>		Nos.		
2.2	300 mm x 300 mm x 50 mm, 2 mm thick. Floor junction Box <i>Rupees</i>		Nos.		
SUB TOTAL FOR FLOOR RACEWAYS & FLOOR JUNCTION BOXES					
1	Supplying & Installing Heavy duty Perforated / Ladder type Cable Trays of 2mm thickness, fabricated from Galvanised sheet of various sizes, including horizontal & vertical bends, reducers, tees, cross members & other accessories as required & duly suspended from the ceiling / floor with GI support / suspenders and including painting with powder coating etc.				
1	100 mm x 50 mm, 2 mm thick, Ladder Cable Trays <i>Rupees</i>	1	Mts.		
2	200 mm x 50 mm, 2 mm thick Ladder Cable Trays <i>Rupees</i>	30	Mts.		
3	100 mm x 50 mm, 2 mm thick Perforated Cable Trays <i>Rupees</i>	1	Mts.		
SUB TOTAL FOR CABLE TRAYS					
VI	LIGHTING FIXTURES & FANS :				
1	Supplying & Installing following mentioned lighting fixtures as per the details given below including necessary hardware such as clamps,nuts, bolts, nails, screws and suspension chains as required for fixing the fixtures in position as directed by architect / Consultant.				
1.1	1200 / 600 mm Long Surface / Wall Mounted, 22 w / 10 w LED Tube light fixture having white end caps, complete Make : Philips, Crompton, Wipro, Model : BRP020, 22w Philips make <i>Rupees</i>	40	Nos.		

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Sr.	Description	QTY	Unit	Rate	Amount
1.2	1 x 18 W Down Lighter Fixture suitable for False Ceiling application White powder coated CRCA ring with spun aluminium reflector, with centre frosted glass, complete with Fluorescent Lamps and Ballasts Make : Philips, Model : FBH 100/118 with lamp Make : Wipro, Model : WCP27118SG Rupees	0	Nos.		
1.3	12 w White Powder Coated Housing LED Round / Square Down Lighter with High Efficiency LEDs & Ballasts Make : Philips, Model : DN191B LED6S-6500 PSU WH S1, DN097B LED10S-6500 Make : Wipro, Model : CRDL10R010HP60 11 W Make : Havells, Model : LHEJNP7CPZ1W012 6000k Rupees	100	Nos.		
1.4	2 x 18 W Down Lighter Fixture suitable for False Ceiling application White powder coated CRCA ring with spun aluminium reflector, with centre frosted glass, complete with Fluorescent Lamps and Ballasts Make : Philips, Model :FBH 150/218 with lamp Make : Wipro, Model : WCP27218SG Rupees	0	Nos.		
1.5	18 w White Powder Coated Housing LED Round / Square Down Lighter with High Efficiency LEDs & Ballasts Make : Philips, Model : DN193B LED12S-6500 PSU WH S1 Make : Wipro, Model : CRDL10R015HP40 17W Make : Havells, Model : LHEBJNP7PZ1W018 6000k Rupees	100	Nos.		
1.6	2 x 36 w PL-L, 600 x 600 mm size, Powder coated CRCA sheet steel suitable for Modular False Ceiling, complete with Electronic ballasts Make : Philips, Model : FBS 450/236 Wing C with D6 PW HF with lamp Make : Wipro, Model : Crescent WVP 24236 SG Rupees	0	Nos.		
1.7	36 w LED Panel of 600mm X 600mm size, Square , Powder coated Recess mounting LED Light Fitting Make : Philips, Model : RC380B G2 LED28S / RC380B G2 LED35S-6500 PSU OD Make : Wipro, Model : CRCO10R038HP57 38 w Make : Havells, Model : LHEEBP7CUL1W034 6000k Rupees	120	Nos		
1.8	72 w LED Strip Light Make : Havells, Model : Endura LHJD02072398 with driver : LHBD06100274 Make : Wipro Model : Garnet 5050 D 45065 with driver : LHBD06100274 Rupees	50	Mts		
2	Supplying & Installing following mentioned Aluminum, medium duty, powder coated with glossy color Ceiling Fans / Wall Fans / Exhaust Fans with necessary clamps hook, bracket, hardware etc				
2.1	1200 mm sweep Ceiling fans (Make : Crompton Color -White) Rupees	8	Nos.		

PRICE BID FOR THE ELECTRICAL WORKS AT HADAPSAR I.E. OFFICE OF P.E.Z. FOR BANK OF MAHARASHTRA.

Sr.	Description	QTY	Unit	Rate	Amount
2.2	400 mm sweep Wall fans (Make : Crompton Color -White) <i>Rupees</i>	12	Nos.		
2.3	250mm sweep Exhaust fan of decorative plastic body & blade with louvers on the outside (Color-white / ivory / brown / black) <i>Rupees</i>	12	Nos.		
SUB TOTAL FOR LIGHTING FIXTURES					
VII	PVC CONDUITS & PVC CASING CAPPINGS				
1.0	Supply and fixing the following sizes of PVC medium grade ISI marked conduits (IS : 9537 Part-III) complete with accessories such as bends, junction boxes, pull boxes etc., in recess or on surface including cutting chases in the walls/floors and making good the same complete as required.				
1.1	19 mm size 2.0mm wall thickness <i>Rupees</i>	0	mtr.		
1.2	25 mm size 2.0mm wall thickness <i>Rupees</i>	100	mts		
1.3	32 mm size 2.0mm wall thickness <i>Rupees</i>	300	mtr.		
1.4	19 mm size flexible pvc conduits <i>Rupees</i>	0	mtr.		
1.5	25 mm size flexible pvc conduits <i>Rupees</i>	0	mts		
1.6	25mm size PVC Casing Capping <i>Rupees</i>	100	mtr.		
1.7	32 mm size PVC Casing Capping <i>Rupees</i>	300	mtr.		
1.8	75mm x 75mm PVC box type trunking <i>Rupees</i>	30	mtr.		
SUB TOTAL FOR PVC CONDUITS & PVC CASING CAPPINGS					
VIII	EARTHING				
1.1	S & I of Earthing Pit / Earth Electrode Station into the true ground level by using GI / Copper Plate type earthing with necessary excavation in soft soil, including Pouring Charcoal & Salt (Approximately) 50kg each per Pit with Predrilled 50mm dia B class GI Pipe-2.5 Mtr In length, GI Funnel with wiremesh, 35 x 5mm GI/Cu Earthing Strip, Complete job with necessary construction of 300mm x 300mm x 300mm Earthing PIT masonry Chamber with providing CI hinged chamber cover, Nutbolts, Earthing Testing Link, Hardware, Numbering of Chamber by using water proof paint. For more details refer IS 3043-1987 Brazing for Cu & Welding for GI Plate to pipe & Strip shall be done with coating by anti-corrosive paint				
1.2	By using 600mm X 600mm X 6mm Thick GI Plate <i>Rupees</i>	2	Nos.		

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Sr.	Description	QTY	Unit	Rate	Amount
1.2	By using 600mm X 600mm X 6mm Thick Copper Plate <i>Rupees</i>	2	Nos.		
2.1	S & I of copper /GI earthing wires/strips in following sizes				
2.2	8 SWG copper bare wire <i>Rupees</i>	0	Mtrs		
2.3	12 SWG copper bare wire <i>Rupees</i>	300	Mtrs		
2.4	25mm x 5 mm thick GI strip <i>Rupees</i>	24	Mtrs		
2.4	25mm x 5 mm thick Copper strip <i>Rupees</i>	24	Mtrs		
3	S & I of isolated earthing / grounding system for computers etc.using insulated green copper earthing wire laid through 20mm PVC conduits from separately made earth pit to the equipment in following sizes <i>Rupees</i>				
3.1	6 sqmm FRLS PVC insulated multithreaded flexible copper in 20mm PVC conduit from 2nd flr to 3rd flr <i>Rupees</i>	30	Mtrs		
3.1	10 sqmm FRLS PVC insulated multithreaded flexible copper in 20mm PVC conduit, from Gnd to Gnd flr and 2nd flr <i>Rupees</i>	60	Mtrs		
4	Supplying & Installing of Main bus for isolated earth comprising of 200mm x 40mm x 6mm thick copper bar fixed on insulated support and having 20 nos of holes and nut bolts studs for clamping the earth leads,all contained in MS/PVCbox of size 300mm x 200mm x 50mm deep and having transparent acrylic inspection cover as approved by Bank / Architect. <i>Rupees</i>	6	Nos.		
SUB TOTAL FOR EARTHING					
IX	MUSIC - CUM - PA - SYSTEM				
1	Supplying & Installing Peaker Point for music - cum PA system comprising of 2x 1.0 sqmm (70/36 size) stranded Twin Twisted, flexible copper conductor, PVC insulated & PVC Sheathed wire pulled through 20 mm dia .PVC heavy gauge conduits and looped from one speaker to other and to the volume control and control switch wherever applicable and finally terminated at Tag Block. <i>Rupees</i>	36	Pts.		
2	Supplying & Installing 8 watt, Round speaker flush mounted on the false ceiling complete with line matching transformer, with proper clamping arrangement <i>Rupees</i>	36	Nos.		
3	Supplying & Installing 8 watt, Surface Mounting Box type Speakers complete with line matching transformer, with proper Wall Mounting arrangement <i>Rupees</i>	4	Nos.		

PRICE BID FOR THE ELECTRICAL WORKS AT HADAPSAR I.E. OFFICE OF P.E.Z. FOR BANK OF MAHARASHTRA.

Sr.	Description	QTY	Unit	Rate	Amount
4	S & I of volume control - cum - ON - OFF switch flush mounted on wall along with other electrical switches .The size and plate of the regulating knob should match with other switches <i>Rupees</i>	10	Nos.		
5	S & I of 250 Watts Bosch / Ahuja make Amplifier and LG / Philips / Samsung make Music System MP3/CD / DVD Player with FM <i>Rupees</i>	2	set		
6	S & I of compatible Hand held Microphone Make : Ahuja / Mipro <i>Rupees</i>	2	set		
7	Supplying & laying RG-11 pulled through 20 mm dia. PVC heavy gauge conduits feom TV Socket to outside building Splitter connections, complete with the necessary terminations <i>Rupees</i>	50	Mts.		
8	Supplying & Installing TV socket Outlet flush mounted on wall / partition <i>Rupees</i>	2	No.		
SUB TOTAL FOR MUSIC - CUM - PA - SYSTEM					
X	MISCELLANEOUS ELECTRICAL WORKS				
1.0	As the Branch / Office is operating, Making Arrangements for Temporary Lighting & Power arrangements, including Data & Voice Networking, in due course of project works. The item includes removing the old piping, wiring, fixtures and DB's etc. and taking them away from the site. <i>Rupees</i>	1	job		
SUB TOTAL FOR MISCELLANEOUS ELECTRICAL WORKS					
Total Amount for Electrical Works Rupees					
XI	TELEPHONE / VOICE CABLING AND OUTLETS				
1	Providing and laying 2 Pair Grey Color 0.5mm Tinned Cu , PVC insulated cable cable for Telephone / Voice in existing raceways / pvc rigid conduits for voice and Supplying & terminating with RJ-11 Telephone Jack / Outlet with face plates in suitable modular PVC / MS box from EPABX / Krone Tag Box to individual work stations and terminate the other on a 10 pair Krone module installed in a Krone Tag box, complete with numbering of each cable with Ferule and Telephone Connection Chart <i>Rupees</i>	80	points		
2.0	Providing, laying and connecting PVC insulated copper telephone cable of following sizes including termination in approved manner.				
2.1	5-pair 0.5 mm size, Telephone cable <i>Rupees</i>	50	mtr.		
2.2	10-pair 0.5 mm size, Telephone cable <i>Rupees</i>	200	mtr.		
2.3	20-pair 0.5 mm size, Telephone cable <i>Rupees</i>	100	mtr.		

PRICE BID FOR THE ELECTRICAL WORKS AT HADAPSAR I.E. OFFICE OF P.E.Z. FOR BANK OF MAHARASHTRA.

Sr.	Description	QTY	Unit	Rate	Amount
3.0	Providing and fixing of Telephone Krone Tag block of following sizes housed in a Powder coated GI box with lockable cover of suitable size including termination				
3.1	20 pair Telephone Tag Box <i>Rupees</i>	2	No.		
3.2	30 pair Telephone Tag Box <i>Rupees</i>	2	No.		
3.3	50 pair Telephone Tag Box <i>Rupees</i>	0	No.		
SUB TOTAL FOR TELEPHONE / VOICE CABLING & OUTLETS					
XII	COMPUTER DATA CABLING AND INFORMATION OUTLETS				
2.0	Supplying and laying Cat 6 cable for Data in existing conduits / raceways and providing & terminating with RJ-45 Information Outlet Ports with face plates in suitable modular PVC / MS box from Server Rack/ Patch Panel / Data Switch to individual work stations & terminating other end with RJ-45 connector including numbering with ferule <i>Rupees</i>	80	points		
2.1	Supplying & Installing Cat-6, RJ-45, 24 Port Patch Panel, complete with terminations & numbering with ferule <i>Rupees</i>	6	nos.		
2.2	Supplying & laying Cat-6, RJ-45, 1 met length Data Patch Cords, <i>Rupees</i>	80	nos.		
2.3	Supplying & laying Cat-6, RJ-45, 2 met length Data Patch Cords, <i>Rupees</i>	80	nos.		
2.4	Supplying & Installing 16-U Networking rack, with Power Strip, ventilation fans, Shelves etc. complete <i>Rupees</i>	2	nos.		
2.5	Supplying & Installing 12-U Networking rack, with Power Strip, ventilation fans, Shelves etc. complete <i>Rupees</i>	1	nos.		
2.6	CAT 6 Computer Data cable, from 1st flr Network Switch to 2nd flr & Gnd flr Network switch, for uploading. Both the ends of the Cables should be properly terminated, using Cat-6, RJ-45 connectors, complete with numbering with ferrule. The cost of Termination & connectors to be included <i>Rupees</i>	120	mts		
SUB TOTAL FOR COMPUTER DATA CABLING & OUTLETS					
Total Amount for Data / Voice / Telephone System cabling Rupees					