

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.
JANAPATH, BHOINAGAR, BHUBANESWAR - 22
[Electrical Division]
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PRICE BID FOR THE WORK UNDER SL. NO :- 01 AS PER IFB

NAME OF THE WORK :- EXECUTION OF ELECTRICAL WORKS (REPAIR & RENOVATION) AND INSTALLATION OF LIGHTNING PROTECTION SYSTEM AT I.T LAB & CLASS ROOM OF I.T.I, RAYAGADA IN THE DISTRICT OF BERHAMPUR.

BID REF NO :- 12/PM/ELECT/OPHWC/2021-22

**NAME &
ADDRESS
OF THE
FIRM**

SCHEDULE OF WORKS

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
A	INTERNAL WIRING & FIXTURE INCLUDING AC				
1	Recessed wiring to Different Points with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked with 20 mm dia non metallic PVC flexible conduit with 5 Amp, 250 V one way modular switch ISI marked and ceiling rose ISI marked mounted on MS Box having front bakelight cover of suitable size, MS Box with 1.0 sq. FR PVC insulated single core multistrand copper conductor as earth wire including all accessories and connection as per direction of Engineer in charge . (Make of wire Finolex / L &T / Anchor / Havels/ V guard/HPL) Make-switch/ceiling rose-Legrand/Wipro/Anchor/havells/Panasonic)				
(a)	Tube Light Point	Nos	30.00	₹ 947.86	₹ 28,435.80

2	Point wiring for 15/16 amp socket outlet with 4.0sq.mm FR PVC insulated single core multistrand copper conductor ISI marked in recess 20 mm dia non metallic PVC flexible conduit with 15/16 Amp, 250 V modular type switch & socket , phenolic laminated sheet suitable size ISI marked MS Box & earthing Point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc as required as per direction of Engineer in charge (Make of wire Finolex / L &T / Anchor / Havels/ V guard/HPL) Make-switch/socket-Legrand/Wipro/Anchor/havells/Panasonic)	Nos	10	₹ 966.87	₹ 9,668.70
3	Point wiring for Computer Point with 2.5 sq.mm FR PVC insulated single core multistrand copper conductor ISI marked in recess 20 mm dia non metallic PVC flexible conduit with 3 Nos of 5 Amp, 250 V modular type switch & socket , phenolic laminated sheet suitable size ISI marked MS Box & earthing Point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc as required as per direction of Engineer in charge . (Make of wire Finolex / L &T / Anchor / Havels/ V guard/HPL) Make-switch/socket-Legrand/Wipro/Anchor/havells/Panasonic)	Nos	39	₹ 1,449.76	₹ 56,540.64
4	Recessed wiring to submain in 2 x 2.5 sqmm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non metallic heavy duty flexible conduit 1.6 mm thick along with 1 x 1.5 sqmm FR PVC insulated single core multistrand copper conductor as earth wire as required from BDB to Switch board & BDB to Switch board(Make of wire Finolex / L &T / Anchor / Havels/ V guard/HPL)	Mtr	180	138.54	₹ 24,937.20

5	Recessed wiring to submain in 2 x 4 sqmm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non metallic heavy duty flexible conduit 1.6 mm thick along with 1 x 1.5 sqmm FR PVC insulated single core multistrand copper conductor as earth wire as required (Make of wire Finolex / L &T /Anchor / Havels/ V guard/HPL) (CSR SL .No- 1.8.3)	Mtr	180	155.72	₹ 28,029.60
6	Recessed wiring to submain in 2 x 6 sqmm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non metallic heavy duty flexible conduit 1.6 mm thick along with 1 x 2.5 sqmm FR PVC insulated single core multistrand copper conductor as earth wire as required from BDB to Power point & BDB to Computer DB (Make of wire Finolex / L &T / Anchor / Havels/ V guard/HPL) (CSR SL .No- 1.8.4)	Mtr	135	₹ 185.88	₹ 25,093.80
7	Recessed wiring in 1X1.5sqmm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non metallic heavy duty flexible conduit 1.6 mm thick as per direction of Engineer in charge (Make of wire Finolex / L &T / Anchor / Havels/ V guard/HPL)	Mtr	720	104.39	₹ 75,160.80
8	Supply and Fixing of 32 amp. DPMCB – 01 no with 32 amp. 240 volt cutout – 02 nos with copper bus bar & indicator etc.including all accessories and connections as per instruction of Electrical Engineer-in- Charge. [Make-(a)MCB /MCCB - -(a)Mcb - Legrand/L&T/ABB/SCHNIDER/ANC HOR-PANASONIC(b)Volt meter, Ammeter-AE/CAPPA, (d) all other accessories ISI mark]	Set	10	6520.50	₹ 65,205.00

9	Supply and fixing of 4 FT 20 W LED Tube light fitting with lamp including fixing and connections as per instruction of Electrical Engineer-in-charge .(Make-CROMPTON/ PHILIPS/ WIPRO)	Nos	30	758.99	₹ 22,769.70
10	Supply and fixing of 1200 mm sweep AC ceiling fan (5 star rated) with connecting wire and all accessories including hanging and connections as per instruction of Electrical Engineer-in-charge.- [MAKE- KHAITAN/USHA/ CROMPTON GREAVES)	Nos	8	1,874.17	₹ 14,993.36
11	Repairing of 1200mm Ceiling fan.	Nos	12	600.00	₹ 7,200.00
12	Repairing of Computer	Nos	5	₹ 15,000.00	₹ 75,000.00
13	Repairing of AC	Nos	25	12,000.00	₹ 3,00,000.00
14	Supply and fixing of 5KVA 130V–280 V STABILISER including all accessories & connection. Make- SAKTI/ JYOTI /AUTOTAKE	Nos	8	7,656.85	₹ 61,254.80
15	Repairing of 5KVA Stablizer	Nos	10	₹ 2,000.00	₹ 20,000.00
16	Supply, Installation, Testing & Commissioning of maintenance free chemical earthing having enhancing chemical compound with 3 Mtr. Long copper bonded steel rod and suitable termination clamp including all accessories. Make :- ABB / STAR-X / UNIVERSAL All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.	No	4	₹ 15,200.00	₹ 60,800.00
17	Providing and fixing 8 SWG (4mm) dia copper wire on surface or in recess for loop earthing as required. (csr sr.no-3.18)	Rft	300	26.66	₹ 7,998.00
19	LAN WORK				₹ 0.00
(i)	Supply & fixing of cat-6 UTP cable for LAN wiring in existing conduit pipe / PVC casing caping / under floor G.I. Tunk line as per the instruction of Electrical Engineer-In-Charge and consultant . MAKE- D-LINK	Mtr	600	26.17	₹ 15,702.00

(ii)	Supply & fixing of following 6U rack with ports distribution data switch suitable for rack mounting as per the instruction of Electrical Engineer-In-Charge and consultant . (Make -D-Link)				₹ 0.00
a	Supply of 6U Wall Mounted Rack with Accessories	No	5.0	3771.32	₹ 18,856.60
b	Cat 6 24 Port loaded ,Modular jack panel	No	6.0	4827.61	₹ 28,965.66
c	Supply of 10/100/1000 gigabyte smart managed switch with 4 SFP port,24 ports(Make -D-Link)	No	6.0	14047.61	₹ 84,285.66
d	Supply of 10/100/1000 gigabyte smart managed switch with 4 SFP port, 8 ports(Make-D-Link)	No	1.0	2095.23	₹ 2,095.23
(iii)	Supply & fixing of Information Outlet with SMB I/O MAKE- D-LINK	No	40.0	206.85	₹ 8,274.00
B	LIGHTNING PROTECTION SYSTEM				₹ 0.00
1	<p><u>Air-Terminal</u> Supply, Installation, Testing & Commissioning of Early Streamer Emission (ESE) type lightning Air terminal.</p> <p><u>Supporting Mast</u> The mounting pole used to support the lightning air terminal shall be minimum length of 05 Mtr. , non corrosive and made up of medium class GI / SS pipe of 1.5" diameter having base plate at bottom for securely fixing the mast on roof top. The mounting pole and supports shall be securely fixed with the brackets and PVC insulated metallic guy wires to withstand the maximum wind velocity of that area.</p> <p><u>Protection Radius :- 48 Mtr.</u> Make :- ABB / STROMKING All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>	No	2	97,850.00	₹ 1,95,700.00

2	<p><u>Lightning Strike Counter</u> Supply, Installation, Testing & Commissioning of non-electronic & non-resettable (Not require any external power supply) type lightning strike counter to count the lightning stroke having display with IP-67 enclosure including all accessories and connection..(6/7 digit) Make :- ABB / STROMKING All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>	No	2	25,000.00	₹ 50,000.00
3	<p>Supply, Installation, Testing & Commissioning of 25 x 5 MM copper flat (Insulated / through 1.5" diameter super quality PVC pipe) from lightning air terminal to earth electrode on wall / ceiling/concrete column/under buried trench by proper saddling & making connection at both ends the and making good the damages caused. All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge Make of PVC Pipe :- AKG / KINJAL / ORIPLAST S..(CSR SL . NO- 3.11) .</p>	Mtr.	80	509.11	₹ 40,728.80
4	<p>Supply, Installation, Testing & Commissioning of maintenance free chemical earthing having enhancing chemical compound with 3 Mtr. Long copper bonded steel rod and suitable termination clamp including all accessories. Make :- ABB / STAR-X / UNIVERSAL All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>	No	6	15,200.00	₹ 91,200.00

5	<p>Supply, connection & Testing of sub earthing with 16 Sq.mm single core multi stranded copper flexible wire from surge protection device (SPD) panel to earth electrode & Main panel board to SPD panel including all accessories, cable socketing and connections.</p> <p>Make :- FINOLEX / ANCHOR / HAVELLS</p> <p>All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>	Mtr	60	154.73	₹ 9,283.80
6	<p>Supply, Installation, Testing & Commissioning of indoor type wall mounted Surge protection device (SPD) panel made of 2 mm thick CRCA sheet, dust and vermin proof duly powder coated having the following arrangement & complete factory wired by 16 Sq.mm single core multi stranded copper flexible wire.</p> <p>[A] Type 1+2 AC Surge Protection Device (SPD) (TP+N) (50 KA) - 01 Set</p> <p>[B] 63 Amp. HRC fuse with link – 03 Nos</p> <p>[C] 100 Amp. 4 pole stud connector – 01 No</p> <p>Make of SPD & HRC Fuse :- HAVELLS / L&T / LEGRAND</p> <p>Make of Wire :- Finolex / L & T / Anchor / Havels/ V guard/HPL)</p> <p>All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>	No	2	18,665.00	₹ 37,330.00
	Sub Total Rs.				₹ 14,65,509.15
	Cess @ 1%				₹ 14,655.09
	Total Estimated Cost				₹ 14,80,164.24
	Total Estimated Cost in Figures				1480164.00
EXCESS	<input type="checkbox"/> LESS <input type="checkbox"/> (Please Tick)	_____ %			
	Quoted Amount in Figure				
	Quoted Amount in words				

N:B- The Estimated cost is exclusive of GST @12%.

Sd/-
Asst. Project Manager (Elect)

Sd/-
APM (Elect) (Hqr)

Sd/-
Project Manager(Elect)