

**TENDER INVITING AUTHORITY: JOINT MANAGER (ELECTRICAL DIVISION), THE ODISHA STATE POLICE
HOUSING & WELFARE CORPORATION LTD, BHUBANESWAR**

NAME OF THE WORK :-EXECUTION OF DG SET WIRING AND LIGHTNING PROTECTION SYSTEM WORK AT MODEL CONVICT PRISON, ATHAGARH IN THE DIST. OF CUTTACK.

BID REF NO.- 26/JM/ELECT/OPHWC/2020-21

Bidder Name	
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SCHEDULE OF WORKS

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN
1	Supply and installation of 7' x5' x 6' MS cage	job	1	70,000.00	70,000.00
2	Supply and laying of 16 sq.mm 2 core PVC Al. Arm Cable of 1.1 KV grade ISI Marked direct in ground including excavation , sand cushioning ,protective covering and refilling the trench etc. as required. (sl no-5.1.1)(Make cable-Finolex / L &T / Anchor / Havels/ V guard/HPL)	Mtr	970	255.63	2,47,961.10
3	Recessed wiring to submain in 2 x 2.5 sqmm FR PVC insulated single core multistarnd 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 Swich board & BDB to Switch board(Make of wire Finolex / L &T / Anchor / Havels/ V guard/HPL)	Mtr	1280	₹ 137.57	1,76,089.60
4	Recessed wiring to submain in 2 x 1.5 sqmm FR PVC insulated single core multistarnd 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 1.0 sqmm FR PVC insulated single core multistrand copper conductor as earth wire as required from BDB to Swich board & BDB to Switch board(Make of wire Finolex / L &T / Anchor / Havels/ V guard/HPL)	Mtr	720	₹ 99.04	71,308.80
5	Recessed wiring to Angle Holder 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)	Nos	112	₹ 931.91	1,04,373.92

6	<p>Recessed wiring to Ceiling Fan Point 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)</p>	Nos	14	₹ 940.82	13,171.48
7	<p>Recessed wiring to 15 Amp. socket Points with 4 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked with 20 mm dia non metallic PVC flexible conduit with 15 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 1.5 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)</p>	Nos	6	₹ 964.00	5,784.00
8	<p>Supply and fixing of 2 way single door MCB box with 1 no 32 AMP DPMCB with sheet steel encloser,distribution board,on surface /recess,complete with tinned copper bus bar,neutral bus bar,earth bar,din bar,detachable gland plate,interconnection,phosphate and power painted including earthing etc as required(SI no- 2.3.6,2.7)</p>	Set	12	809.69	9,716.28
9	<p><u>Air-Terminal</u> Supply, Installation, Testing & Commissioning of Early Streamer Emission (ESE) type lightning Air terminal. <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. <u>Protection Radius :- 48 Mtr.</u> <u>Make :- ABB / STROMKING / POWER TRAC</u> All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>	No	5	₹ 97,850.00	₹ 4,89,250.00

10	<p>Lightning Strike Counter 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 / POWER TRAC All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>	No	5	₹ 25,000.00	₹ 1,25,000.00
11	<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.	200	509.11	₹ 1,01,822.00
12	<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	12	₹ 15,200.00	₹ 1,82,400.00
13	<p>Supply & Erection of 12 mtr long Heavy gyage Tata MS stepepole(6mtr x 5 inch and 6 mtr x4inch) with 2ft x 2ft x 10mm MS Base plate and 30 cm x 30cm x 6mm MS Top plate including fabrication ,painting with 1 coat red oxide and 2 coat aluminum paint , 4nos complete stay set for support of pole ,couping and concreting along with all accessories complete as required and as per Electrical Engineer-in-Charge</p>	Set	3	33,864.40	₹ 1,01,593.20
14	<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. Make :- FINOLEX / ANCHOR / HAVELLS All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>	Mtr.	36	₹ 154.73	₹ 5,570.28

15	<p>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 Make of SPD & HRC Fuse :- HAVELLS / L&T / LEGRAND</p> <p>Make of Wire :- 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>	No	2	18,665.00	₹ 37,330.00
16	Total Rs.				1741370.66
17	Cess @ 1%				17413.71
18	Total Estimated Cost				1758784.37
19	Total Estimated Cost in Figures				1758784.00
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% from Sl No. 1-8 and exclusive of GST @18% from Sl No. 9-15.

Signature of Tenderer with seal

Sd/-
Asst. Project Manager[Elect.]

Sd/-
APM Elect. (Hqr.)

Sd/-
Joint Manager (Elect.)