

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

NAME OF THE WORK :-EXECUTION OF AREA ILLUMINATION WORK, DG SET WIRING & INVERTER WIRING AT SPECIAL SUB JAIL , BHANJANAGAR IN THE DIST. OF GANJAM.

BID REF NO.- 22/JM/ELECT/OPHWC/2019-20

Bidder Name

SCHEDULE OF WORKS

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
1	Supply & fixing of 70 Wt. LED Street light fitting comprises of Pressure die cast Aluminium housing powder coated in silver grey and toughened glass, Surge Arrester 1 No & 100lum/wt, Protection IP66 with bulb,choke,cover,G.I bracket,clamp & nut bolt connecting wire all accessories (Make-CROMPTON/ PHILIPS/ WIPRO)	No	41	₹ 8,458.25	₹ 346,788.25
2	Supply & fixing of outdoor/indoor type 63A DPMCB panel having I/C-63 A DPMCB-01 No & 63 Amp 2P Change Over,Outgoing -02 Nos 32 Amp DPMCB & 02 nos 32 A DP switch with powder coating all accessories & connection.[make-(a)MCB /MCCB - Legrand/ L&T/ ABB, (b)volt meter, ammeter-AE/IMP, (d) all other accessories ISI mark]	Set	2	20,125.00	₹ 40,250.00
3	Supply and laying of 16 sq.mm 2 core PVC Al. Arm Cableof 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	40	250.96	₹ 10,038.40
4	Supply and fixing of 16 sq.mm 2 core End termination. (sl no- 5.8.2)	Nos	4.00	157.40	₹ 629.60
5	Supply and fixing of 4 sqmm 2 core PVC Aluminium service wire including all accessories and connections.(make-Joshi/Multicab)	Mtr	108	41.28	₹ 4,458.24
6	Supply and fixing of earthing with G.I. earthing pipe 3 mtr long 40 mm dia ISI marked including accessories and providing masonry enclosure with cover plate having locking arrangement and watring pipe etc with charcoal and salt as reqd. (csr sr.no- 3.2)	NO.	2	₹ 2,357.36	₹ 4,714.72
7	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	30	25.73	₹ 771.90

8	Supplying & installation, testing and commissioning of post top lantern of 40 watt LED luminare (CROMPTON/BAJAJ) with all accessories and including connection etc. and complete as per Electrical Engineer-in-Charge and consultants. (Gate light)	No	4	11293.61	₹ 45,174.44
9	S/F of 200 mm x 150 mm x 60 mm (nominal) size pvc(SINTEX) looping end box with hinged cover having one no. 20 A rating moulded fuse base & holder, 4 A NS type fuse and 4 way connector to be used in the bottom of street light pole for cable termination as per Electrical Engineer-in-Charge and consultants. and complete as per Electrical Engineer-in-Charge and consultants.	NO	4	1100.00	₹ 4,400.00
10	Supply and laying of 10 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	80	230.18	₹ 18,414.40
11	Supply and fixing of 10 sq.mm 2 core End termination. (sl no- 5.8.2)	Nos	6.00	135.80	₹ 814.80
12	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	16	₹ 5.00	₹ 80.00
B	ADMINISTRATIVE BUILDING				
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)				
(a)	Angle Holder Point	Nos	4.00	₹ 896.13	₹ 3,584.52

(b)	Tube Light Point	Nos	4.00	₹ 908.10	₹ 3,632.40
2	Point wiring for 5/ 6 amp socket outlet (Separate) (MODULAR) with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor ISI marked in recess 20 mm dia non metallic PVC flexible conduit with 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)	Nos	4	₹ 702.32	₹ 2,809.28
3	Supply and fixing of 9 WT. LED Bulb installed at angle holder/ batten holder. Make CROMPTON/ PHILIPS/ WIPRO)	Nos	4	₹ 120.75	₹ 483.00
4	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	4	₹ 741.75	₹ 2,967.00
5	Supply and fixing of 400 MM.(16") WALL MOUNTED FAN WITH COMPLETE ACCESSORIES [BROWN / WHITE]. including hanging and connections as per instruction of Electrical Engineer-in-charge. [MAKE- KHAITAN/USHA/ CROMPTON GREAVES)	Nos	4	2,127.50	₹ 8,510.00
6	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	60	₹ 132.64	₹ 7,958.40

7	Point wiring for 5/ 6 amp socket outlet with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor ISI marked in recess 20 mm dia non metallic PVC flexible conduit with 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)	Nos	4	₹ 510.02	₹ 2,040.08
8	Supplying and fixing of 6 modular GI Box 18 swg with Modular base & cover including all accessories. .	No	4	₹ 228.70	₹ 914.80
9	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)	Nos	4	₹ 953.99	₹ 3,815.96
10	Supply and installation of 1.5Tr. Split type Air Conditioner (3 Star) of reputed brand with supply and fixing of 5 KVA ,130-280 Volt voltage range wall/floor mounted stabiliser including all accessories,fastner angle copper piping up to 15ft & connections as per instruction of Electrical Engineer-in-charge MAKE of A.C. – CARRIER /MAKE – BLUE STAR, , MAKE OF STABILIZER- JYOTI/SHAKTI/ AUTOTEK	Nos	4	₹ 49,450.00	₹ 197,800.00
11	Supply and fixing of 4 way mcb Box (4+12)(LDB) with 63 amp 4P Isolator/ 4P MCB <(>&<)> 12 nos 32 amp SPMCB 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. (Sl.No- 2.7.4, 2.5<(>&<)> 2.9)MCB /MCCB - Legrand/ L&T/ ABB	Nos	1	₹ 4,210.27	₹ 4,210.27

12	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) (CSR SL .No- 1.8.4)	Mtr	100	₹ 179.98	₹ 17,998.00
13	Recessed wiring to submain in 4 x 6 sqmm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 32 mm dia non metallic heavy duty flexible conduit 1.6 mm thick along with 2 x 2.5 sqmm FR PVC insulated single core multistrand copper conductor as earth wire as required (Make of wire Finolex / L & T / Anchor / Havels / V guard) (CSR SL .No- 1.8.10)	Mtr	10	276.8	₹ 2,768.00
C DG SET WIRING					
1	Supply and laying of 16 sq.mm 4 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-25 sl no- 5.1.2)(Make cable-Finolex / L & T / Anchor / Havels / V guard/HPL)	Mtr	80	₹ 288.09	₹ 23,047.20
2	Supply and fixing of earthing with G.I. earthing pipe 3 mtr long 40 mm dia ISI marked including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc with charcoal and salt as reqd. (csr sr.no- 3.2)	NO.	3	₹ 2,357.36	₹ 7,072.08
3	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	60	25.73	₹ 1,543.80
4	Supply and fixing of 63 Amp 4 Pole Change Over Switch including all accessories and connection. ALL CHANGE OVER SWITCHES – (SIMENS / L&T / HPL / ABB / C&S	No	1	8,797.50	₹ 8,797.50
5	Supply and laying of 16 sq.mm 4 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.	Mtr.	100	288.09	₹ 28,809.00
6	Construction of 3-ph 4 wire LT line using 8 mtr. long 200 KG PSC Pole with 3X50+1X35 sq.mm AB Cable including concreting and coupling.	Km	0.120	371,751.05	₹ 44,610.13

7	Construction of 3-ph 4 wire LT line on existing pole 8 mtr. long 200 KG PSC Pole with 3X50+1X35 sq.mm AB Cable including concreting and coupling.	Km	0.300	272,180.28	₹ 81,654.08
8	Supply and fixing of 63 AMP DP MCB-1NO (OUT DOOR TYPE) WITH COPPER BUS BAR <(>&<)> INDICATOR ETC including all accessories and connections As per instruction of electrical engineer -in-charge [Make-(a)MCB /MCCB - Legrand/ Schnider /L<(>&<)>T / ABB, (b)Volt meter, Ammeter-AE/CAPPA, (d) all other accessories ISI mark]	Nos	8	8,740.00	₹ 69,920.00
9	Supply and laying of 10 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	200	230.18	₹ 46,036.00
10	Supply and fixing of 10 sq.mm 2 core End termination. (sl no- 5.8.2)	Nos	8.00	135.80	₹ 1,086.40
11	Supply and fixing of earthing with G.I. earthing pipe 3 mtr long 40 mm dia ISI marked including accessories and providing masonry enclosure with cover plate having locking arrangement and watring pipe etc with charcoal and salt as reqd. (csr sr.no- 3.2)	NO.	8	₹ 2,357.36	₹ 18,858.88
12	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	200	25.73	₹ 5,146.00
D	INSIDE LIGHTING ON BUILDING				
1	Supply & fixing of 90 Wt. LED Street light fitting comprises of Pressure die cast Aluminium housing powder coated in silver grey and toughened glass, Surge Arrester 1 No & 100lum/wt, Protection IP66 with bulb,choke,cover,G.I bracket,clamp & nut bolt connecting wire all accessories (Make-CROMPTON/ PHILIPS/ WIPRO)	No	5	₹ 10,376.45	₹ 51,882.25
2	Supply and fixing of 4 sqmm 2 core PVC Aluminium service wire including all accessories and connections.(make-Joshi/Multicab)	Mtr	250	41.28	₹ 10,320.00
E	MINIMAST LIGHT WORK				

1	Supply and erection of 8 Mtr. Long pole having material : MS tubular hot dip galvanised(Medium) pipe as per IS1239(Parti)-1990 at 90 microns with 8 gussets, earth point provision, channel support of size 50mmX50mmX6 mm for fixing of six nos LED Flood light including colouring of 2 coat of red oxide & black paint, equal thickness for the base plate of pole and pillar, provision of antivibration mats. The pole shall be erected on a reinforcement foundation of 1.5 Mtr. J-type foundation bolts will be 24mm and for an length of 1 Mtr. below ground, RCC readymade muff shall be filled with cement concrete 1:2:4. The pole should be of industry gate GI coated, weather and should be lightening proof with appropriate earthing.	Set	3	23,461.57	₹ 70,384.71
2	Supply and fixing of 1x120 Watt LED Flood light including fixing and connections as per instruction of(Make luminaries-Philips/Crompton/Wipro)	Nos	12	13,676.95	₹ 164,123.40
3	Supply and fixing of earthing with G.I. earthing pipe 3 mtr long 40 mm dia ISI marked including accessories and providing masonry enclosure with cover plate having locking arrangement and watring pipe etc with charcoal and salt as reqd. (csr sr.no- 3.2)	NO.	3	₹ 2,357.36	₹ 7,072.08
4	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	60	25.73	₹ 1,543.80
5	Supply & fixing of 4 sq.mm, 3 core copper flexible cord including all accessories and connections[From Junction box to Flood Light]	Mtr	36	135.64	4,883.04
6	Supply & fixing of outdoor/indoor type 63A DPMCB panel having I/C-63 A DPMCB-01 No & 63 Amp 2P Change Over,Outgoing -02 Nos 32 Amp DPMCB & 02 nos 32 A DP switch with powder coating all accessories & connection.[make-(a)MCB /MCCB - Legrand/ L&T/ ABB, (b)volt meter, ammeter-AE/IMP, (d) all other accessories ISI mark]	Set	3	20,125.00	₹ 60,375.00
7	Supply and laying of 10 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	150	230.18	₹ 34,527.00
8	Supply and fixing of 10 sq.mm 2 core End termination. (sl no- 5.8.2)	Nos	9.00	135.80	₹ 1,222.20

F	INVERTER WIRING AT ADMN. BLOCK				
1	Supply and installation of 5 KVA sine wave Inverter (with 100 AH Battery 8 Nos)1-ph input & 1ph out put including all accessories and connection.	Set	1	198,875.00	₹ 198,875.00
2	Recessed wiring to submain in 1 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 (Make of wire Finolex / L &T / Anchor / Havels/ V guard/HPL)	Mtr	650	₹ 105.34	₹ 68,471.00
3	Supply and fixing if 2 way MCB Box consist of 1 no 40 Amp DPMCB including all accessories and connections.	Nos	2	810.12	₹ 1,620.24
4	Supply and fixing of 8 way , Double Door MCB Box with 1 No 32 Amp. DP MCB & 6 Nos of 20 Amp. SPMCB 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.(Sl. No- 2.3.6,2.7,)	Nos	1	2,714.36	₹ 2,714.36
5	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)	Nos	2	₹ 953.99	₹ 1,907.98
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 fromBDB to Power point & BDB to Computer DB(Make of wire Finolex / L &T / Anchor / Havels/ V guard) (CSR SL .No- 1.8.4)	Mtr	20	₹ 179.98	₹ 3,599.60
G	GENERATOR WIRING TO EACH BLOCK (100 CAPACITY , 150 CAPACITY , HOSPITA , CELL, & FEMALE WARD)				

1	Supply and fixing of 8 way , Double Door MCB Box with 1 No 32 Amp. DP MCB <(>&<)> 6 Nos of 20 Amp. SPMCB 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.(Sl. No- 2.3.6,2.7,)	Nos	5	2,714.36	₹ 13,571.80
2	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	1200	₹ 132.64	₹ 159,168.00
3	Supply and laying of 10 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	200	230.18	₹ 46,036.00
4	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 bakelite 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)				
A	Angle Holder Point	Nos	50.00	₹ 896.13	₹ 44,806.50
5	Supply and fixing of 9 WT. LED Bulb installed at angle holder/ batten holder. Make CROMPTON/ PHILIPS/ WIPRO)	Nos	50	₹ 120.75	₹ 6,037.50

6	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)	Nos	30	₹ 905.01	₹ 27,150.30
A	Sub-Total				2052899.29
B	Cess				20528.99
C	Total Estimated Cost				2073428.28
D	Total Estimated Cost in Figures				2073428.00
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.

Signature of Tenderer with seal

**Sd/-
Asst. Project Manager[Elect.]**

**Sd/-
APM Elect. (Hqr.)**

**Sd/-
Consultant(Elect.)**

**Sd/-
Joint Manager(Elect.)**