

NAME OF THE WORK : BOQ FOR ILLUMINATION AND INTERNAL & EXTERNAL ELECTRICAL WORKS IN CHAKRATHIRTH BEACH,AT PURI DISTRICT.

INTERNAL ELECTRICAL WORK.					
Sl.no.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT Rs.
	INTERNAL WIRING.				
1	Recessed wiring to light point / first light of group control/ call bell point/ exhaust fan point /wall fan point with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metalic PVC conduit with 6 Amp, 250 V clip in type switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer in Charge. (Make of wire Finolex /Polycab/ Anchor / Havels) (Make of modular box,cover,switch & socket-Legrand Myrios/schneider opale/panasonic vision.)				
	Group C	Nos.	85	1005.00	85425.00
2	Recessed wiring to secondary light point looped from primary light point with 1.5sqmm FR PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 1.5sqmm FR PVC insulated single core multistrand copper conductor for running earth including 3 plate ISI marked Ceiling rose with all accessories & connection as per direction of Engineer-in-charge. (Make of wire Finolex /Polycab/ Anchor / Havels) Average Length: 3 mtr	Nos.	6	397.00	2382.00
3	Recessed wiring to ceiling fan point with 1.5sqmm FR PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch,Stepped type Moudular Regulator, Base & Cover with 1.5sqmm FR PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge. (Make of wire Finolex /Polycab/ Anchor / Havels) Group B	Nos.	2	1127.00	2254.00
4	Recessed wiring to Twin control light point with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metalic PVC conduit with 6Amp, 250 V clip in type 2way switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer-in-charge. (Make of wire Finolex /Polycab/ Anchor / Havels) Group C	Nos.	2	1211.00	2422.00
5	Recessed wiring for 5 / 6 amp socket outlet with 6Amp, 250 V clip in type modular switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection on same switch board as per direction of Engineer-in-charge.	Nos.	6	541.00	3246.00

6	Recessed wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size , with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection on separate board as per direction of Engineer-in-charge.(Make of wire Finolex /Polycab/ Anchor / Havels) Group C	Nos.	1	1190.00	1190.00
7	Recessed wiring for 2 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accesories and connection on separate board as per direction of Engineer-in-charge.	Nos.	1	1013.00	1013.00
8	Recessed wiring for 6 pin 16 amp socket outlet with 16Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection as per direction of Engineer-in-charge. 25Nos for Stage Light,3Nos For Aquaguard.	Nos.	6	837.00	5022.00
9	Recessed wiring for A.C/ Power socket outlet with industrial type socket outlet, plug top and metal chained cover in sheet steel enclosure ,20A/32A SP MCB including all accesories and connection as per direction of Engineer-in-charge.	Nos.	1	1056.00	1056.00
10	Recessed wiring to exhaust fan/Wall Fan point with 1.5sqmm FR PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch, Base & Cover with 1.5sqmm FR PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge. (Make of wire Finolex /Polycab/ Anchor / Havels) Group B	Nos.	26	1005.00	26130.00
11	Call bell point	Nos.	1	1,206.00	1206.00
12	Recessed wiring for 3 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accesories and connection on separate board as per direction of Engineer-in-charge.	Nos.	1	1172.00	1172.00

	SUB TOTAL				132518.00
	SUBMAIN.				
13	Recessed wiring to submain in 2 x 6 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 25 mm dia non-metallic heavy duty PVC conduit 1.6 mm thick along with 1 x 4 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as equired. (Make of wire Finolex /Polycab/ Anchor / Havels)	Mtrs	60	215.36	12921.60

14	Recessed wiring to submain in 2 x 4 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non-metallic heavy duty PVC conduit 1.6 mm thick along with 1 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as equired. (Make of wire Finolex /Polycab/ Anchor / Havels)	Mtrs	60	173.38	10402.80
15	Recessed wiring to submain in 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non-metallic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as equired. (Make of wire Finolex /Polycab/ Anchor / Havels)	Mtrs	100	152.56	15256.00
16	Recessed wiring to submain in 2 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non-metallic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as equired. (Make of wire Finolex /Polycab/ Anchor / Havels)	Mtrs	200	135.34	27068.00

	SUB TOTAL				65648.40
17	DB.				
a)	Supply and fixing of following way three pole and neutral, sheet steel, MCB distribution, 415 V on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic cover for the MCB knobs detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required wih necessary MCB , RCCB / ISOLATORS as required.Note for MCB- There should be colour indication for tripping On ,Off & Trip/There should be mid trip position for toggles for electrical fault conditions.	Nos.	2	4366.00	8732.00

	SUB TOTAL				8732.00
	CABLE .				
18	Laying of one number of PVC insulated and PVC seathed / XLPE power cable of 1.1 KV grade of 3.5core 75 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.(Make-polycab/RR Kable/Rhino cable)	Rmt	120	630.00	75600.00

19	Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 4 core 16 sq.mm Aluminium on surface as required.(Make-polycab/RR Kable/Rhino cable)	Rmt	550	331.00	182050.00
20	Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 4 core 10 sq.mm Aluminium on surface as required.(Make-polycab/RR Kable/Rhino cable)	Rmt	800	301.00	240800.00

	SUB TOTAL				498450.00
	END TERMINATION				
	Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum cable of 1.1 KV as required.				
21	3.5C x 95 sq.mm	set	4	950.00	3800.00
22	3.5C x 75 sq.mm	set	4	900.00	3600.00
23	4C x 16 sq.mm	set	12	550.00	6600.00

	SUB TOTAL				14000.00
	PANEL				
	Supply, installation & testing of L.T. outdoor floor mounted type distribution boards made out of 2 mm thick CR sheet metal cubicle, duly acid treated for derusting, primered and painted with 2 coats of enamel paint of approved shade; dust, damp & vermin proved; having hinged door and compartmental arrangement for each equipment & busbar chamber on the top of the panel running horizontally; having provision for cable/ conduit entry, earthing studs as per specification mentioned below duly factory wired conforming to the relevant ISS and as per special conditions of contract making good the damages caused complete as per the direction of Engineer-in-charge.				
24	MAIN PANEL with 100A 4P MCCB 25KA -1 No as incomer, 100 A 4P Change over switch-1Nos, 63 A 4P MCB 10KA -5Nos (For 3Nos Landscaping Light Feeder pillar & 2Nos Spare) with E.C Busbars with 4nos 65KA VSD along with 4nos 32A SP MCB.	set	1	139707.00	139707.00
25	FEEDER PILLAR FOR LANDSCAPING AREA with 63A 4P MCB (10KA) -1 No as incomer , 32A 4P MCB 10KA-5 Nos,32A DP MCB 10KA 3Nos as Outgoing with E.C Busbars .	set	3	32411.00	97233.00

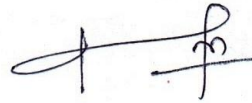
	SUB TOTAL				236940.00
	EARTHING				
26	Earthing with copper earth plate 600 mm x 600mm x 3.15 mm thick ISI marked including accessories and providing masonry with cover plate having locking arrangement and watering pipe etc with charcoal and salt as required.	Set	6	5377.00	32262.00
27	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked at 0.5 meter below ground level as strip earth electrode including soldering etc. as required.	Rmt	100	548.00	54800.00
28	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked on surface or in recess for connection etc as required.	Rmt	100	571.00	57100.00
29	Providing and fixing 8 SWG CU wire on surface or in recess for loop earthing as required.	Rmt	120	63.00	7560.00

	SUB TOTAL				151722.00
	FIXTURE				
	Supply, Installation, Testing and Commissioning of pre-wired fluorescent fitting / compact fluorescent fitting /LED fitting of all sizes complete with all accessories and lamp etc. directly on ceiling /wall or recessed in false ceiling , including connection with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor and earthing as required. Make-JAQUAR/philips/wipro/panasonic.				
30	Ceiling mounted indoor type batten type LED Luminaire with LED Lamp Similar to JAQUAR Cat No. LGLZPCX022XW or equivalent.	Nos	10	728.00	7280.00
31	Ceiling/ Wall mounted type BULK HEAD Luminaire with Similar to JAQUAR Cat No.CWLL01V109XX or equivalent.	Nos	6	1484.00	8904.00
32	ROUND SURFACE mounted indoor type 18W LED LIGHT Similar to JAQUAR Cat No. LNRO02R018SC or equivalent.	Nos	10	1645.00	16450.00
33	Supply, Installation, testing and commissioning of 10W Mirror Light Similar to JAQUAR Cat no-LTBL01X010XC/Equivalent.	Nos	10	540.00	5400.00
34	Supply, Installation, Testing and Commissioning of ceiling fan 1200mm sweep, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor etc. as required.	Nos	2	2417.00	4834.00
35	Supply, Installation, testing and commissioning of exhaust fan of 300 mm sweep 900 rpm in the existing opening, including making the hole to suit the size of the above fan, making good the damage complete, connection, etc as required.	Nos	20	2881.00	57620.00
36	Supply, Installation, testing and commissioning of 40W IP65 Rating LED Street light similar to Jaquar cat no-LSRT01S36XW / Equivalent. WITH 3Mtr GI POLE etc as required.	Nos	70	8533.00	597310.00
37	Supply, Installation, testing and commissioning of 5W LED STEP Light similar to Jaquar cat no-LBRK01S105XW / Equivalent. etc as required.	Nos	4	3943.00	15772.00
38	Supply, Installation, testing and commissioning of 12W LED SPIKE Light similar to Jaquar cat no-LSPK04R112XW / Equivalent. etc as required.	Nos	4	5186.00	20744.00
39	Supplying and fixing of 50mm G.I pipe (Medium Class) along with accessories in ground including cutting & making good the same as required.	Mtrs	45	153.00	6885.00
	SUB TOTAL				741199.00
	SAFETY EQUIPMENTS				
40	Supply and installation of Rubber Mats 12mm thick of size 2000mm x 1000mm x 12 mm thick Electrical tested with test certificate.	Nos	4	3500.00	14000.00
41	Supply and fixing of fire buckets with angular fabricated stand to fix 4 buckets in each stand for Electrical fire protection as per standards of Electrical Inspectorate.	sets	4	1500.00	6000.00
42	Supply and fixing of Co2 fire extinguisher with mounting clamps with pressure test certificate .	Nos	4	7500.00	30000.00
43	Supply and fixing of shock treatment charts duly laminated along with separate colour single line diagram laminated, to be fixed in Electrical control panel room.	sets	3	650.00	1950.00

44	Supply and fixing of first aid box with medicines complete with medicine with three years expiry date to be fixed in Electrical control panel room.	set	1	1500.00	1500.00
	TOTAL				53450.00
	TOTALESTIMATED COST				1902659.40
	Percentage quoted by the bidder				
	Percentage quoted by the bidder in words				

Approved 44 Nos items only

Signature of the Bidder



**Divisional Forest Officer
Puri Wildlife Division, Puri**