

**"ESTIMATE FOR PART -1 "**

**Name of work:"Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area."**

**PART "A" (Maintenance contract)**

Sr No	DESCRIPTION	QTY.	RATE	UNIT	AMOUNT
1	Providing manpower to undertake Operation, periodical, Preventive and breakdown maintenance of 11/0.44KV substation along with electrical installations and its equipment, and maintaining uninterrupted power supply at inside cargo jetty from berth no 1 to 10 including all non-residential buildings, Pump house etc. as per the enclosed Annexure-I along with Maintenance of industrial lighting system i.e., existing flood lighting, street lighting shed/bay lighting etc., provided in various transit sheds, Godwon's, High Masts tower RCC/ Rail/ Tubular Poles, Lattice Type Towers, Buildings/ structures etc. as per Annexure-II situated inside cargo jetty area including road lighting From Zero Port to 10 Berth duly monitoring the fuse off calls of the above areas by maintaining a complaint register round the clock including maintenance of LT/ HT UG lines complete as per the following work schedules and as per the scope of work.	24		month	
2	Providing Vehicle for transportation of material / execution of work & shifting manpower from one site to another site inside cargo jetty including driver.				
a.	Tata Yodha / Mahindra Maxi truck Utility type of model 2024 inclusive fuel & driver round the for the use of monitoring maintenance works 24 hrs interval as indicated in the scope of work.	24		month	
b.	Bolero camper 5 seater type vehicle of model 2024 inclusive fuel & driver round the clock for the use of monitoring lighting works 12 hrs intervals as indicated in the scope of work.	24		month	
c.	TRUCK MOUNTED HYDRAULIC SKY LIFT for the use of Repairing inside Godown lighting, lighting tower works etc. for 24 hrs intervals as indicated in the scope of work.	24		month	

**Total of "A" of Part-1**

"ESTIMATE FOR PART -2 "

Name of work: ""Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godwons, weigh bridges , Pump house and high mast & Mini mast Gates including Operation & maintainance of 11/0.433KV Substation inside Cargo jetty at Berth no 13 to 16 area.

**PART "A" (Maintenance contract)**

Sr No	DESCRIPTION	QTY.	RATE	UNIT	AMOUNT
1	Providing manpower to undertake Operation, periodical, Preventive and breakdown maintenance of 11/0.44KV substation along with electrical installations and its equipment, and maintaining uninterrupted power supply from Berth No. 13 to Berth No. 16 including all non-residential buildings, Pump house etc. as per the enclosed Annexure-I along with Maintenance of industrial lighting system i.e., existing flood lighting, High Mast & Mini Mast lighting, Godown lighting etc., provided in various transit s sheds, Godwon's, High Masts tower RCC/ Rail/ Tubular Poles, Buildings/ structures etc. as per Annexure-II situated inside cargo jetty area including road lighting From Berth No. 13 to Berth No. 16 duly monitoring the fuse off calls of the above areas by by maintaining a complaint register round the clock including maintenance of LT/ HT UG lines complete as per the following work schedules and as per the scope of work.	24		month	
2	Providing Vehicle for transportation of material / execution of work & shifting manpower from one site to another site inside cargo jetty including driver.				
a.	Jeep Mahindra 5 seater Utility type vehicle of model 2024 inclusive fuel & driver round the clock for the use of monitoring maintenance works 24 hrs interval as indicated in the scope of work	24		month	

Total of "A" of Part-2

Sr No	DESCRIPTION	QTY.			RATE	UNIT	AMOUNT
PART "B" (Maintenance Spares For Part 1 & 2)							
1	Supply of Wire Rope as per tech Sp no 1 Suspension Wire Rope: (i) 8mm dia. (ii) 10mm dia AISI 316 grade with 7/19 construction of Make: Usha Martin / Bharat Wire Rope	2000 1000	500 500	2500 1500		Mtr Mtr	
2	Supply of Electrical Hoist trailing round Cable (5 core copper flexible round cable) as per technical Sp no 2	600	600	1200		Mtr	
3	Supply of Sustaining type double drum drum double shaft winch suitable for High mast tower meeting the Technical specification no 3	15	5	20		No.	
4	Supply of Power tool suitable for the existing HM & above winch supplied in item no 3 the motor should be supplied along with sprocket & chain as per tech Sp no 4	20	10	30		No.	
5	Supply of following type of Distribution Boards as per Technical Specification No 5. (i) SP&N Double door IP 42 6 Way . (ii) TPN Double Door IP 42 DB 4 ways (iii) TPN Double Door IP 42 DB 8 ways	10 5 5	5 5 5	15 10 10		No. No. No.	
6	Supply of following type of 4 pole MCCBs, as per Technical Specification No. 6 (i) 40Amps, 415V, 16KA, 50Hz. (ii) 63Amps 415V 16KA 50Hz. (iii) 100 Amps, 415 volts, 25KA, 50 Hz (iv) 125 Amps, 415 volts, 25KA, 50 Hz. (v) 160Amps, 415 Volts, 25KA, 50 Hz (vi) 250Amps,415 Volts, 35KA, 50 Hz.	40 30 15 20 10 20	10 20 5 5 5 5	50 50 20 25 15 25		No. No. No. No. No. No.	
7	Supply of following type of MCBs as per Technical Specification No. 07 (i) SP MCB, 0-32 Amps, "C" type,230Volts. (ii) DP MCB, 0-32 Amps, "C" type,230Volts. (iii) 4 pole, 0-32 Amps, "C" type, 415 Volts. (iv) 4 pole, 40 Amps, "C" type, 415 Volts. (v) 4 pole, 63 Amps, "C" type, 415 Volts.	35 20 25 25 30	35 20 25 25 30	70 40 50 50 60		No. No. No. No. No.	
8	Supply of Contactor, 70A capacity, 240 Volt with "NO" &"NC" Contacts of make L&T ML-70	36	25	61		No.	
9	Supply of 240V Coil suitable for Contactor of make L&T /Havell's	50	25	75		No.	
10	Time Switch, 240V AC /28V DC, 16A make L&T/ Indo Kopp	10	10	20		No.	
11	Supply of Switch disconnector fuse unit & as per Technical Specification No. 8 (i) FN 125 A Capacity (ii) FN 200 A Capacity (ii) FN 250 A Capacity	10 5 5	5 5 5	15 10 10		No. No. No.	
12	Supply of surface mounting type Single Pole & Neutral switch fuse units/fuse switches with Rewire able Porcelain Fuse units. a) 32A 240V.	20	10	30		No.	
13	Supply of surface mounting type Triple Pole, 415V AC, 50 Hz with Neutral Link switch fuse units/fuse switches with Rewire able Porcelain Fuse units a) 100A, 415V b) 250A' 415V	10 25	10 20	20 45		No. No.	
14	Supply of surface mounting type On						

Sr No	DESCRIPTION	QTY.			RATE	UNIT	AMOUNT
	load Changeover Switch , housed in sheet steel enclosure with front access having side handle operation a) 63A, 415V b) 200A' 415V	10 15	2 2	12 17		No. No.	
15	Supply at site 4 Core LT armoured aluminium conductor XLPE cable of 1.1KV grade of the following type & size as per IS: 7098 (Part-I) 1985 and as per technical specification no 9 (i) 4 Core X 25 sq. mm. (ii) 4 Core X 70 sq. mm. (iii) 4 Core X 120 sq. mm	2000 1500 1500	1000 500 500	3000 2000 2000		Mtr Mtr Mtr	
16	Supply of Energy efficient T 5 LED Tube Light Fixture with complete accessories as per technical specification no 10. a) 40 watt LED Tube light Fixture.	900	500	1400		No.	
17	Supply of Energy Efficient 120W LED lamp street light fixture with Complete accessories as per Tech Spec No . 11. a) 90Watt Road way Luminary.	30	25	55		No.	
18	Supply of Energy Efficient LED flood light fixture with Complete accessories as per Tech Spec No . 12. a) 250 Watt LED Flood Light Luminary	150	50	200		No.	
19	Supply of GI Strips Connecting earth station to the equipment as per Tech Specification No . 13. (i) 12 SWG GI earthing wire. (ii) G.I strip 50 X 6 mm thick.	1000 500	500 500	1500 1000		Mtr Mtr	
20	Supply of following type of supplied ceiling fan as per Tech Spec No. 14 (i) 1200 mm sweep ceiling fan (i) 1400 mm sweep ceiling fan	100 100	50 50	150 150		No. No.	
21	Supply at site 9 mtr long with detachable double arm Octagonal type pole as per technical Spec no:- 15	25	0	25		No.	
22	Supply of heat shrink straight through Joint kit of 11KV XLPE 3 Core Aluminium armoured cable, as per Technical Specification No. 16 3C X 95 SQMM 3C X 150 SQMM 3C X 300 SQMM 3c x 400S SQ MM	20 30 20 10	20 20 20 20	40 50 40 30		No. No. No. No.	
23	Supply of heat shrink End termination Joint kit of 11KV XLPE 3 Core Aluminium armoured cable, as per Technical Specification No. 17 3C X 150 SQMM 3C X 300 SQMM 3C X 400 SQMM	10 8 5	5 4 3	15 12 8		No. No. No.	
24	Supply of heat shrink straight through Joint Kit suitable for L.T. 1.1 KV XLPE 31/2 / 4 Core armoured, 1. 4CX 25 SQMM 2. 4CX 50 SQMM 3. 4CX 70 SQMM	25 25 20	15 15 10	40 40 30		No. No. No.	



Sr No	DESCRIPTION	QTY.			RATE	UNIT	AMOUNT
	<b>PART – C (Miscellaneous Work)</b>						
1	Dismantling and re-erection of 30 mtrs. High Mast Tower including lantern ring and lighting fixtures as per technical specification No. 1	30	10	40		No	
2	Laying of 3.5/4.0 Core LT armoured aluminium conductor XLPE cable of 1.1KV grade of the following type & size on wall through saddles & clamps as per Technical Spec No. 2 a) up to 3.5/4.0 core x 50 Sq.mm	1500	500	2000		Mtr	
3	Laying of all size of H.T/ L.T cable through Road crossing / cement concrete flooring by auguring method as per technical Specification no 3	1000	500	1500		Mtr	
4	Laying of LT armoured aluminium conductor XLPE cable of 1.1kv grade of size up to 150 Sq.mm through excavation in Hard/Soft Soil as per Technical Specification No. 4	1000	500	1500		Mtr	
5	Rewinding of Exhaust / Wall mounting Fan of 450mm to 750mm sweep with super enamelled copper winding wire, Technical Spec No. 5 a) Exhaust Fan / Wall mounting Fan of all size.	25	25	50		No.	

Sr No	DESCRIPTION	QTY.			RATE	UNIT	AMOUNT
6	Providing & fixing chemical treated back filled compound earthing, pipe In Pipe for 2000 Amps (LT) capacity , complete with civil work as per Tech Specification No:- 6.	30	25	55		No.	
7	Laying, connecting of GI Strips Connecting earth station to the equipment as directed including all labour and material as per Technical Spec No. 7 (i) 12 SWG GI earthing wire. (ii) G.I strip 40X6mm thick.	1000 500	600 1000	1600 1500		Mtr Mtr	
8	Erection of supplied 9 Meter long pole along with civil work as per Technical Specification no. 8	25	0	25		No.	
9	Hiring of Vehicle as per technical Specification as per Tech Spec No. 10 (i) Hiring of 30 meter height Telescopic mobile harbour crane for 8 hrs interval (1 Visit) for maintenance of high mast tower. (ii) Hiring of hydra for 4 hrs interval (1 visit) for maintenance of high mast tower. (iii) Hiring of pay loader/ excavator for 4 hrs interval (1 visit) for maintenance of high mast tower.	10 24 24	8 8 24	18 32 48		Visit Visit Visit	
Total Of PART C							