



नव मंगलूर पत्तन प्राधिकरण  
**NEW MANGALORE PORT AUTHORITY**  
यांत्रिक अभियंता विभाग  
**Mechanical Engineering Department**  
इलेक्ट्रिकल इंजिनियरिंग डिविजन, पणंबूर, मंगलूर  
**Electrical Engineering Division**  
**Panambur, Mangalore - 575010**

E-mail: [ele-section@nmpt.gov.in](mailto:ele-section@nmpt.gov.in)  
GSTIN: 29AAALN0057A2ZG

Phone: 0824 2887750/740/738  
Fax: 0824 2408200/2408300

No. 8/3/2024/Ele. Dvn/ETS.II/11/01

Date: 13.11.2024

To,

Sir,

Sub: -NMPA-EE (E) - **“Electrification work and providing lightning arrester for watch tower near Northern Breakwater, NMPA”** - Quotation invited - Reg.

Quotation in sealed covers superscribed as “Electrification work and providing lightning arrester for watch tower near Northern Breakwater, NMPA” invited in accordance with the instructions to the Tendered Terms & Conditions as detailed below, may please be submitted addressed to **“The Executive Engineer (Elec.), Electrical Division, Administration Building, New Mangalore Port Authority, Panambur, Mangalore- 575010”** not later than **3.00 PM on or before 20.11.2024**. Quotation will be opened on the same day at 3.30 PM in the presence of the tenderers who wish to be present.

SL No.	Description of work	Qty	Rate Rs.	Rate in words	Amount Rs.
1	Supplying of 1.1KV XLPE PVC extruded inner sheath Armoured LT UG Cable as per IS-1554(Part-I) or IS-7098 (Part-I) Armouring strip thickness and resistivity as per IS-3975. <b>4C X 16 sq.mm</b>	20	Mtrs		
2	Labour charges for laying LT UG Aluminium cable in existing trench/GI pipe /Stoneware pipe/ on wall/on pole as required. <b>4C x 16 sq.mm</b>	20	Mtrs		
3	Supplying and making end terminations of cable with suitable glands, crimping the lugs in the Feeder pillars with supply, fixing of all required hard ware complete. <b>4 Core x 16 sq.mm</b>	2	Nos.		
4	Supplying and making end terminations of cable with suitable	1	Nos.		

	glands, crimping the lugs in the Feeder pillars with supply, fixing of all required hard ware complete. <b>3.5 Core x 25 sq.mm</b>				
5	Supply and Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multi-strand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694: confirming to latest amendments. <b>1.5 sq.mm</b>	300	Mtrs		
6	Supplying heavy gauge PVC conduit pipe confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc. by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18SWG GI fish wire run throughout the conduit wherever necessary. <b>25mm dia 2mm thick</b>	30	Mtrs		
7	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make. <b>a) 75 X 75 X 65 mm</b>	05	Nos.		
8	Supplying and fixing flush mounting powder coated/galvanized metal box suitable for surface mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in brick/stone/c.c. wall. <b>a) 1 Way</b> <b>b) 3 Way</b> <b>c) 6 Way</b>	2 1 6	Nos. No. Nos.		
9	Supplying and fixing modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. machine screws, bolts, nuts etc. complete. <b>a) 1 Way</b> <b>b) 3 Way</b> <b>c) 6 Way</b>	2 1 6	Nos. No Nos.		
10	Supplying and fixing of modular switch and connected accessories on existing modular switch plates a) 6A One Way Switch b) 6A Two Way Switch c) 6A 3 way socket d) Stepped Fan Regulator (2 module)	12 2 9 1	Nos. Nos. Nos. No.		

	e) 16A One Way Switch f) 6/16A Universal Socket g) 32A DP Switch h) 6A Bell Switch i) Telephone Socket	2 4 2 1 1	Nos. Nos. Nos. No. No.		
11	Supplying of capacitor type ceiling fan complete with down rod, blades, shackle, canopies etc. for operation on 230 volts, 50 cycles. Single phase AC supply confirming to ISS-374-1979 and with double ball bearing system. <b>a) 48"Sweep(1200mm) Regular model</b>	1	No.		
12.	Supply and erection of <b>Street Light</b> luminaries' pressure die cast aluminum housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with injection molded polycarbonate material, delivering superior light output Rated life Burning hour's 50000 hr @Lumen Maintenance of 70%, maximum light intensity should be between 60 degree to 70 degrees. CCT> 5500K, IP66 optical and electrical compartment and the impact resistance of complete luminaries > 1K08. Power Factor > 0.9 with mains, Surge Protection - Min 5KV along with Over voltage/Overload, short circuit/miss - wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm.Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoSH. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED light fixture with 70W System Power consumption. LED Efficiency >130 lm/w, nominal CRI >75.Luminaire manufacture should have accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008.Housing with supplier word mark/name shall be Engraved/Embossing on the die cast housing/ Body part. Warranty of 2 years against any manufacturing defect working under standard	1	No.		

	electrical conditions as mentioned above should be given by LED manufacturer. <b>LED Street Light 70 Watts.</b>				
13	Supply and fixing of Hot Dip Galvanized M.S. Bracket suitable for outdoor luminaries and mounted on wall using necessary bolts, nuts etc. complete. a) <b>Single Arm Bracket with 1000mm Standard 40/50 mm dia</b>	1	No		
14	Supply and fixing of PVC Batten with integrated LED Tube with high quality diffuser with life of 25000 burning hours and 70% lumen maintenance with CRI > 80. Power Input: 220-240V@ 50/60Hz & Power factor > 0.9 along with CE approved. 2 years Warranty. a) <b>LED light fitting 1 x 4'-22W</b>	4	Nos.		
15	Supplying and fixing of LED Bulkhead fitting of 10W with IP65 protection and IK08 impact resistance suitable for surface and wall mounting applications.	4	Nos.		
16	Fixing a Ceiling Fan of all capacities and all types with necessary clamps and 'S' hook made out of 15mm dia MS rod with 5 amps ceiling rose of approved quality with necessary length of 23/00076 inch PVC insulated twin twisted wire of approved quality, mounted on a suitable size wooden board and wired.	1	No		
17	Supply and fixing of regular MCB distribution board on wall/wood board/flush mounting using required clamps, bolts, nuts etc. with provision for fixing suitable type capacity MCB's 3 phase double door with powder coated painting. Made out of 14 SWG MS enclosure. a) Double Door 4 way TP & N	1	No		
18	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and "C" type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. a) 10A SP b) 16A DP c) 40A TPN	6 2 1	Nos. Nos. No.		

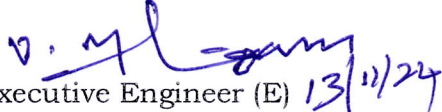
19.	Supply and Installation/ Fixing/ Provision of Pole box with HRC Fuse/MCB proviso and Suitable connector/terminal for 3 Ph/1 Ph connections with Loop-in and Loop-Out terminals for 10 sqmm/25sqmm 3.5 C Al/Cu cable and branch out 2.5 sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather proof), rust proof, dust proof, water-proof having internally embedded gasket with provision for cable Entry through IP65 Thermoplastic, polyamide glands and/or grommets. <b>a) 260mmx210mmx116mm</b>	2	Nos.		
20	Wall mounted indoor type with chargeable portable Emergency twin Spot light. a) Power Source: Battery Powered b) Light: LED c) Voltage: 6 V d) Wattage: 100W	1	No.		
21	Supplying exhaust fan of 1440 rpm of 300 (12") size with bracket blades complete for light duty for suitable to operate on 230V, 50Hz AC Supply.	1	No.		
22	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts and 5A ceiling rose with sufficient length of 23/0.0076 inch PVC insulated twin core wire.	1	No.		
23	<b>External Lightning Protection (ELP)</b> As per IEC 62305-3, Level-3 (Rolling Sphere/Angle of Protection/Mesh Method) External Type.				
(a)	Supply and Installation of 2 Meter, 16mm/10mmAlMgSi Air-Termination Rod with Accessories. 2 Meter, 16mm AlMgSi Chamfered on both ends Air-Termination Rod-104200 Side Wall Parapet Clamp SS304 for 16mm, 1.5mtr/2mtr/2.5mtr-Air-Termination Rod-035004-2set/Concrete 337 Circular Base 17kg (for Air-Termination Rods D 10mm/16mm) Connecting Clamp for Air Terminal to Roof Conductor - 380116	1	Set		
b)	Supply and Installation of 8mm Aluminium-Magnesium Alloy Round Conductor-RD8/AlMgSi-840008with SS Holder.	50	Mtrs		

c)	Supply and Installation of 8mm Round Conductor SS Holder-207009	60	Nos.		
d)	Supply and Installation of Universal Cross Connector StSt-315119/390059	10	Nos.		
e)	Supply and Installation Test Clamp-Round Conductor to Strip Connector-459129	2	Nos.		
f)	Supply and Installation of 8mm Round Conductor Holder for Wall and Parapet StSt with Cover Plate-274150.	8	Nos.		
g)	Supply and Installation of 10mm Stainless Steel Earth Conductor.	20	Mtrs		
h)	Supply and fixing of RCC Earth Pit Chamber (340mm X 340MM) Frame and Cover.	2	Sets		
i)	Supply and Installation of Copper Bonded Earth Rod, 17.2mm dia, 3000mm long, 250micron- 062173 a) Terra 20kg Fulgurites Free Backfill Material-573011-1 Bag. b) Stainless Steel Earth Rod Connecting Clamp-SS316-1 Clamp c) Red Soil for Earth pit filling including earth excavation work complete.	2	Sets		
24	Supplying, fixing and wiring earth electrode for panel and street lights using 40mm dia, 2.90mm thick GI pipe 2.5 Mtr long with funnel with mesh and suitable size reducer fixed on the top of the Electrode. The funnel should be enclosed in a CC chamber of 400x400x400 mm with cast iron cover. The electrode shall have staggered holes of 12mm dia and the electrode covered 150mm all-round with alternate layers of salt and charcoal from the bottom othe CC chamber. The connection from the electrode is to be established through GI strip using GI bolts/nuts.	1	No.		
25	Supply and drawing GI strip for grounding connection using necessary fixing materials as required a) 40 x 6 mm GI strip	25	Mtrs		
	Total				
	Applicable GST				
	Grand Total				

### TERMS & CONDITIONS:

1. The rate quoted for the items shall be firm and F.O.R destination basis. Please note that NMPA is not issuing any concessional C or D forms.
2. The Tenderer shall submit Valid Electrical Contractor License and GST Registration Certificate along with their offer, without which the offer is liable for rejection.
3. Applicable GST will be paid as extra as per actual.
4. The time allowed for completion of work is **30 days** from the date of issue of work order.
5. The 70W LED Flood Light shall have 2 years warranty should have Guarantee /warranty as per the manufacturer leaflet.
6. The carried out work shall have one year Guarantee from the date of handing over after satisfactory completion of work.
7. Please note that no advance payment will be made. But payment will be made within 15 days after satisfactory completion of Work.
8. Offer shall be submitted in NMPA format only along with Terms & Conditions of Enquiry. Offer submitted in other format will not be considered for evaluation and liable for rejection.
9. The Tenderers should quote their rates in figures as well as in words the amount tendered by them. The amount per each item should be worked out and requisite total should be given. All rates shall be quoted in proper form in the tender schedule enclosed. The rates quoted should be valid for **90 days**.
10. The Tenderer shall be responsible for making good of all the damages done during the work and has to employ skilled & competent workers for carrying out the work.
11. The Tenderer shall be responsible for taking precautionary measures for the safety of the workman working under them and the responsibility arising due to any mishap during the execution of work, the payment of any compensation etc., lies entirely on the part of the Contractor.
12. No tools, plant, Labour, equipment, transport, etc., required for the work will be supplied departmentally and contractor has to make his own arrangements.
13. The evaluation shall be done on the basis of total lowest value (L1) quoted. The GST element if any will not be considered for evaluation.
14. The acceptance of the tender will rest with competent authority of NMPA who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received without assigning any reason.
15. LIQUIDATED DAMAGES:
  - i. In case of delay in completion of the contract, liquidated damages (L.D) may be levied at the rate of 0.5% of the contract price plus applicable GST per week of delay, or part thereof subject to a maximum of 10 per cent of the contract price.

16. Department standard operating procedure will be shared with the successful bidder before commencing the work and an undertaking will be obtained for complying with the same. In case if the Contractor does have a defined SOP for carrying out the work, the same shall be scrutinized and approved by the Executive Engineer (E)-I for its applicability.
17. If the Tenderer after award of work/contract fail to execute the work in the specified allotted period, then the Tenderer shall be debarred for a period of two (2) years from participating for tenders at New Mangalore Port Authority.

  
Executive Engineer (E) 13/11/24  
Electrical Division, NMPA

Seal and sign of Tenderer