

भारत सरकार  
(पत्तन, पोत परिवहन और जलमार्ग  
मंत्रालय)  
**दीपस्तंभ और दीपपोत निदेशालय**  
“दीपभवन”, गांधीनगर  
कडवंत्रा डाक, कोचीन – 682 020



Government of India  
(Ministry of Ports, Shipping and  
Waterways)  
**Directorate of Lighthouses &  
Lightships**  
“Deep Bhavan”, Gandhinagar  
Kadavanthra P.O., Cochin – 682 020

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सं. / No. MS-Coc-37001/1/2019-MS

दिनांक / Date: 22.11.2024

### कोटेशन आमंत्रण सूचना / NOTICE INVITING QUOTATION

निम्नलिखित कार्य हेतु भारत के राष्ट्रपति के लिए और उनकी ओर से निदेशक, दीपस्तंभ और दीपपोत निदेशालय, कोचीन प्रतिष्ठित ओ ई एम या उनके अधिकृत आपूर्तिकर्ताओं, लाइसेंस प्राप्त ठेकेदारों, पार्टियों या सरकारी उपक्रम से सीलबंद कोटेशन आमंत्रित आमंत्रित करते हैं। / For & on behalf of the President of India, the Director of Lighthouses and Lightships, Deep Bhavan, Gandhinagar, Kadavanthra, Cochin – 682 020 (Kerala), invites sealed quotations from reputed OEM or their authorized suppliers, licensed Electrical Contractors, parties or Government Undertakings.

क्रम सं. Sl. No.	विषय / Subject	विवरण / Description
1	कार्य का नाम / Name of Work	<b>Provision of Lightning Conductor at Amini Lighthouse</b>
2	स्थान / Location	अमीनी दीपस्तंभ / Amini Lighthouse, P.O. Amini, UT of Lakshadweep, Pin: 682 552.
3	अनुमानित लागत / Estimated Cost	₹ 1,12,000/-
4	बयाना राशि / Earnest Money Deposit (EMD)	₹ 2,240/-
5	कोटेशन प्रारूप के डाउनलोड की अवधि / Period of Download of Quotation format	23.11.2024 (0900 hours) to 03.12.2024 (1400hours)
6	सीलबंद कोटेशन & बयाना राशि प्रस्तुत करने की अवधि / Sealed Quotation & EMD Submission Period	23.11.2024 (1400 hours) to 03.12.2024 (1500 hours)
7	कोटेशन के खोलने की तिथि / Date of Opening of Quotation	04.12.2024 (1600 hours)

- 1) ई एम डी को डी डी / एफ डी आर के रूप में किसी भी राष्ट्रीयकृत / भारतीय रिजर्व बैंक को मंजूरी बैंक से "निदेशक, दीपस्तंभ एवं दीपपोत निदेशालय, कोचीन" के पक्ष में जो कोचीन में देय है को प्रस्तुत की जानी चाहिए। / EMD to be drawn in the form of DD / FDR from any Nationalised / RBI approved Bank in favour of "The Director, Directorate of Lighthouses & Lightships, Cochin", payable at Ernakulam

- 2) लघु उद्योग ई एम डी भुगतान से छूट दी गई है। कंपनियों को छूट की मांग वैध एन एस आई सी / एम एस एम ई प्रमाण पत्र निविदा में उल्लेख किये काम संबंधित स्टोर / सेवा की अनुसूची का संकेत प्रस्तुत किया जाए। / Small Scale Industries are exempted from paying EMD. The firms seeking exemption will have to submit valid NSIC/MSME Certificate indicating the Schedule of Stores/Service related to the work mentioned in the Tender
- 3) कार्य का ब्यौरा कोटेशन आमंत्रण सूचना दस्तावेज में उपलब्ध हैं जो केन्द्रीय सार्वजनिक खरीद पोर्टल (CPPP) वेबसाइट <http://eprocure.gov.in/epublish> से डाउनलोड किया जा सकता है और बोली केवल ऑफलाइन प्रक्रिया में सीलबंद कोटेशन की जा सकेगी। कोटेशन आमंत्रण सूचना विभागीय वेबसाइट [www.dgll.nic.in](http://www.dgll.nic.in) पर देखी जा सकती है। / The details of work are available in the notice inviting quotation document which can be downloaded from website Central Public Procurement Portal (CPPP), <http://eprocure.gov.in/epublish> and the bid is to be submitted through sealed quotation in offline procedure. The notice inviting quotation can be seen on departmental website [www.dgll.nic.in](http://www.dgll.nic.in)
- 4) ईएमडी के साथ सीलबंद कोटेशन निदेशक, दीपस्तंभ और दीपपोत निदेशालय, कोचीन को कोटेशन जमा करने की अवधि के अंतिम दिन या उससे पहले जमा किया जाना चाहिए, अन्यथा कोटेशन अस्वीकार कर दिया जाएगा। डाक/कूरियर सेवाओं के कारण होने वाली किसी भी देरी या हानि के लिए निदेशक जिम्मेदार नहीं होंगे / Sealed Quotation with EMD should be submitted to the Director, Directorate of Lighthouses and Lightships, Cochin on or before the last day of quotation submission period failing which the quotation shall be liable to be rejected. Director shall not be responsible for any delay or loss, due to postal/Courier Services.

निदेशक / DIRECTOR

## SCOPE OF THE WORK

Transportation of the materials from Deep Bhavan Cochin to the site, Amini Lighthouse, P.O. Amini, UT of Lakshadweep, Pin: 682 552, Including Loading, Unloading and Freight charges. **Obtaining necessary permits for the personnel to Amini, Agatti & Kavaratti Islands from Lakshadweep Administration to enable them to visit Amini Island through either Agatti & Kavaratti Islands along with Ship tickets for travelling to these islands to carry out the work at their own cost.**

Installation of the Lightning Conductor should be carried out as per the direction of department representative at site. ER Test shall be taken for Lightning Conductor and Earthing for determining the values to be within prescribed limit. The values are to be provided to the department representative.

Installation of the Lightning Conductor, with following specifications:

- Annealing of entire copper strip 25mm X 6mm at site, fabrication of clamps, construction of scaffolding supports for the fixing of the copper strip with copper clamps, fixing the GI Pipe at top of tower to hold the Air conductor in place, miscellaneous civil works, removal of old damaged earth strip, soldering the earth connections, etc.,
- Fixing of 1.5m Long Copper Air Electrode with Spikes (Heavy Duty) at one end with sufficient copper clamps to the GI pole. (As per drawing for Air Conductor at the top of the Lighthouse Tower).
- Fixing of GI Pipe, C Class, 2meter length with GI Flange/base plate & Top Cover (To hold Air Conductor on top of Tower) by fixing the GI Flange/base plate to top trestle platform by at least one 12mm GI Bolt, Nut & Washers and fastening the pole with Copper Strips to the Railings. Painting with zinc metal primer and 2 coats of Synthetic enamel paint on the GI pole.
- Fabrication of clamps from 25mm X 6mm copper strip (as per drawing along one side of the Main Leg of Lighthouse trestle tower surface with equidistant gap and additional clamps for Air Conductor to be tied to GI pipe).
- Providing and fixing 25mm X 6mm copper strip for aerial conductor/earth tape through trestle tower as required. (To be fitted along one side of the Main Leg of the Lighthouse trestle tower with sufficient prefabricated clamps as per drawing to hold the Earth Tape in Single Length. If not available in single length. The jointing of the copper tape should be done with overlapping strips and brazing done with lead solder and at least 2 brass nuts and bolts on each side of joint to hold the joint in place)
- Providing and fixing 25mm X 6mm copper strip in 40mm dia G.I. pipe Medium from earth electrode including connection with brass nut, bolt, spring, washer, excavation and re-filling etc. as required at 0.50meter below ground. (Jointing if applicable shall be done by overlapping and with 2 sets of brass nut bolts spaced at 50mm for each end) (Earth Tape connection from the spike to the top end Copper Earth Plate connections)

- Earthing with copper earth plate 600mm X 600mm X 3mm thick including accessories, and placement of prefabricated enclosure with cover plate having cover arrangement and watering pipe of 2.7meter long etc. with charcoal/ coke and salt/backfill earthing compound as required.
  - Excavation of sufficient depth on the Surface Alluvial Soil for earth strip laying and also the inner layer to place the earth strip and refilling the same, excavation of earth pit of prescribed measurements and placement of Earth pit chamber with materials.
- I. All the tools, machinery and consumables which are essential to complete the work in full. Complete materials for the scaffolding works including transportation of the same to site.
  - II. All the works to be carried out wherever applicable conforming to relevant Indian standards.
  - III. Schematic diagrams have been enclosed for reference to carry out the works.

बोलीकर्ता / BIDDER

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## TERMS AND CONDITIONS

- i. Your quotation may be forwarded in a sealed cover duly super scribed “ Provision of Lightning Conductor at Amini Lighthouse” so as to reach this office on or before 1500 hours on 03.12.2024, which shall be opened on 04.12.2024 (1600 hours).
- ii. **The qualified bidder shall be obtain necessary permits for their personnel to Amini, Agatti & Kavaratti Islands from Lakshadweep Administration to enable them to visit Amini Island direct or through either Agatti & Kavaratti Islands along with Ship tickets for travelling to these islands to carry out the work at their own cost.**
- iii. Your rate shall indicate the basic cost and other taxes separately.
- iv. The items used should be of standard make and confirm to the Indian standard specification as applicable.
- v. The company / service engineers should be possessing minimum 3 years' experience in the relevant field.
- vi. The following documents to be submitted along with sealed quotation:
  - 1) NSIC/MSME registration certificate or EMD.
  - 2) Work Experience of equivalent or higher value of NIQ ( Supply orders/ Work completion etc.)
  - 3) Last 3 years income tax returns.
  - 4) PAN card.
  - 5) GST Registration Certificate.Non Submission of any of above credentials shall render the quotation liable for rejection.
- vii. The L1 bidder shall be decided on the consolidated lowest total of the schedule of work.
- viii. Successful bidder shall have to submit performance guarantee in the form of FDR equivalent to 10% of the tendered amount/value.
- ix. The work shall be carried out to the entire satisfaction of the Director or his representative.
- x. The payment shall be made as below:
  - 1) 100% payment of the contract amount shall be made within 30 days from the satisfactory installation/ completion of work.
- xi. The rates should remain valid for 90 days from the date of opening of quotations. Supply of items and works shall be completed within 90 days from the date of supply/work order.
- xii. The L1 bidder have to fulfil all relevant labour act & laws and fully responsible for the safety of labourers engaged by him. The department will not be held responsible for any claim for injuries or loss of life, what so ever for the labourers engaged by him.
- xiii. The right to reject your offer either in part or in full without assigning any reasons vests with the undersigned.

- xiv. The Director, Directorate of lighthouses and Lightships, Cochin reserves the right to cancel the contract if the contractor is found not working according to the terms and conditions, and he will be liable to make good of the losses of the department due to the breach of any of the terms and conditions of the contract for the period up to the date of actual termination of the contract.
- xv. This contract shall be framed and operated as an Indian Contract in all the respects and in conformity with Indian laws. Law suits and others proceedings arising out of or in connection with the contract works shall be instituted in Courts of Law of Kochi (Ernakulam), Kerala.

Name and Address of the Paying Authority	Contact Phone / Fax / E-mail	Work Site
The Director, Directorate of Lighthouses & Lightships, "Deep Bhavan", Gandhinagar, Kadavanthra, Cochin – 682 020, Kerala State.	Phone: 0484- 2205720 Fax: 0484-2206608 E-mail: dte-koc@gov.in	Amini Lighthouse, P.O. Amini, UT of Lakshadweep, Pin: 682 552

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## अनुसूचि / SCHEDULE

कार्य का नाम / Name of Work :- Provision of Lightning Conductor at Amini Lighthouse

क्रम सं. / S. No.	वस्तु का विवरण / Description of items	मात्रा / Qty	रेट / Rate	जी एस टी / GST in ₹	यूनिट / Unit	रकम / Amount in ₹
1	Earthing with copper earth plate 600mm X 600mm X 3mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7meter long etc. with charcoal/ coke and salt as required. <b>(Without materials)</b>	1			Job	
2	Excavation of sufficient depth on the Surface Alluvial Soil for earth strip laying and also the inner layer to place the earth strip and refilling the same, removal and refixing of paver blocks with concreting and construction of Earth pit chamber with materials.	1			Job	
3	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer in- charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding	90			sqm	
4	Labour Charges for the annealing of copper strip & plate, fabrication of clamps (as per drawing), fabrication of GI Pipe C Class, 2meter length with GI Flange/base plate & Top Cover (For Air Conductor at top of Tower), miscellaneous civil works, soldering the earth connections, etc.,	1			Job	
Brought Forward Total						

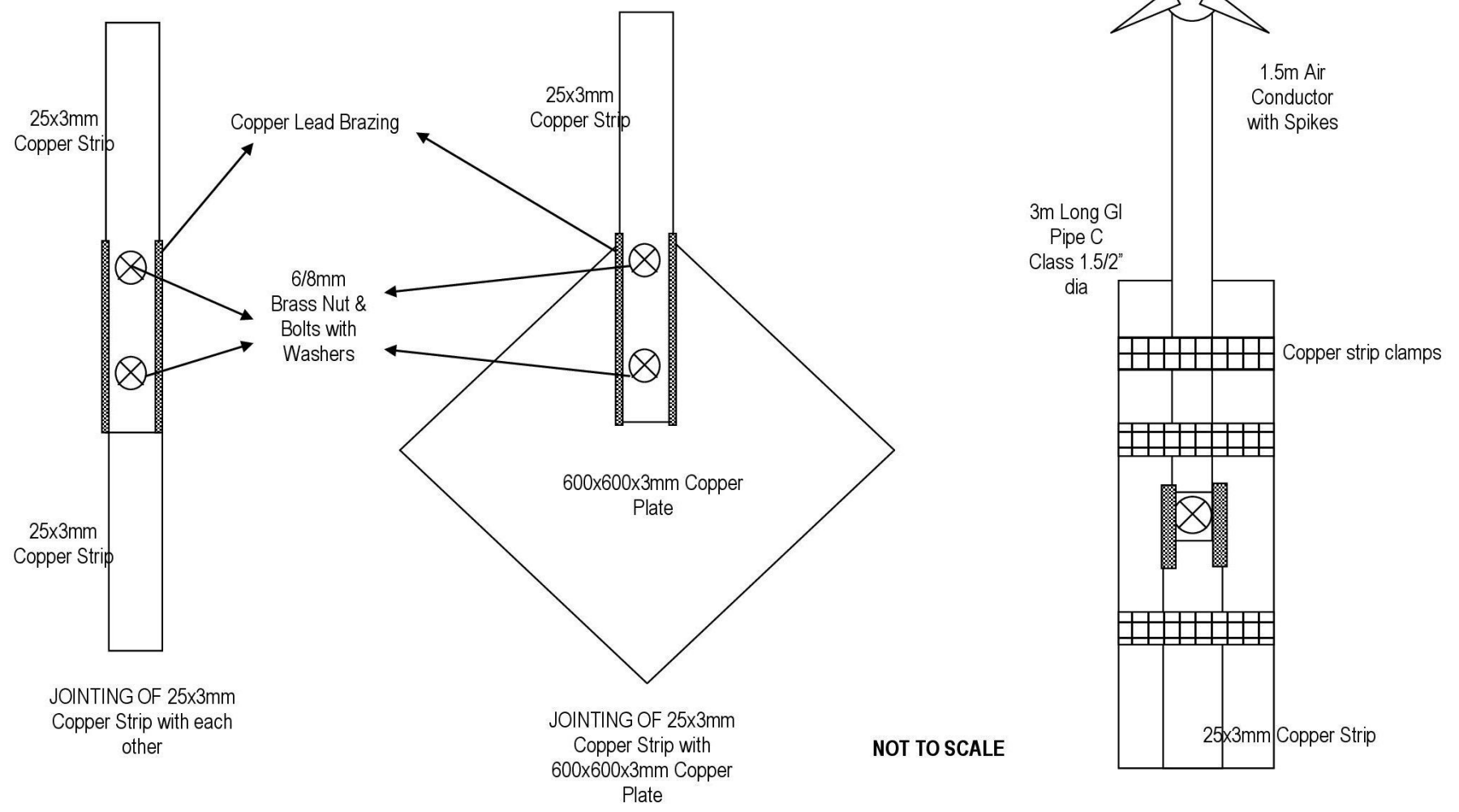
क्रम सं. S. No.	वस्तु का विवरण Description of items	मात्रा Qty	रेट Rate	जी एस टी / GST in ₹	यूनिट Unit	रकम Amount in ₹
5	Fixing of 25 x 6mm prefabricated Copper clamps along the trestle tower as required for holding the Copper earth strip along with fixing of Copper earth strip on each clamp inclusive of brazing all the joints.	1			Job	
6	Transportation charges for all the items from Deep Bhavan, Cochin to Amini Lighthouse through courier <b>(All relevant Materials for the work provided by department)</b>	1			Job	
					Grand Total	
(Rupees _____ only)						

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### SCHMATIC DRAWING – COPPER STRIP, PLATE & AIR CONDUCTOR JOINTING Amini LIGHTHOUSE

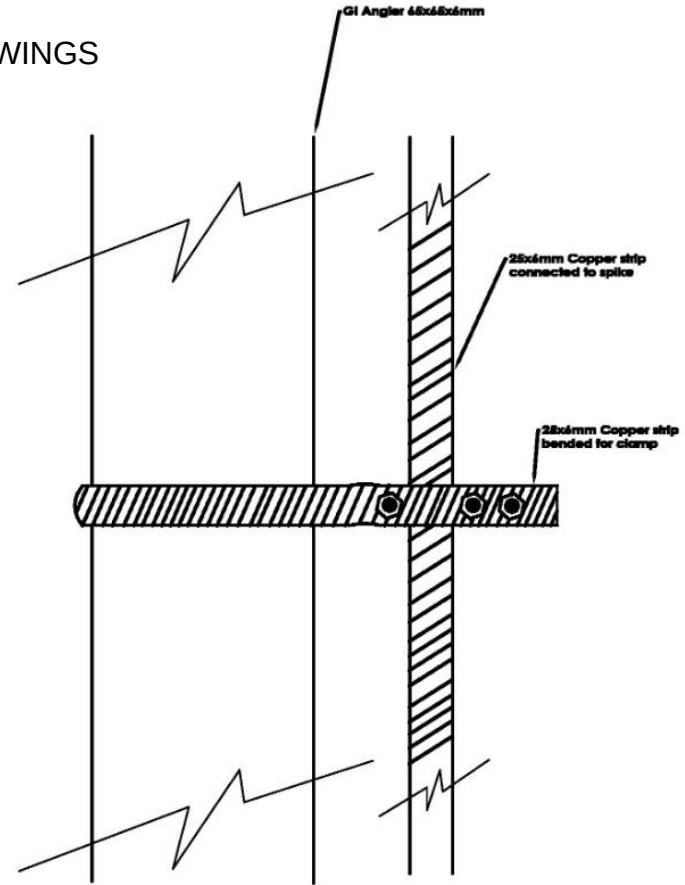
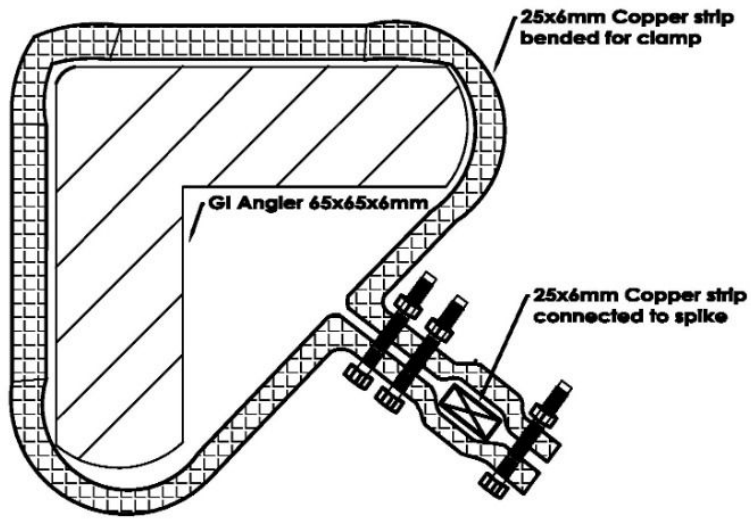


NOT TO SCALE

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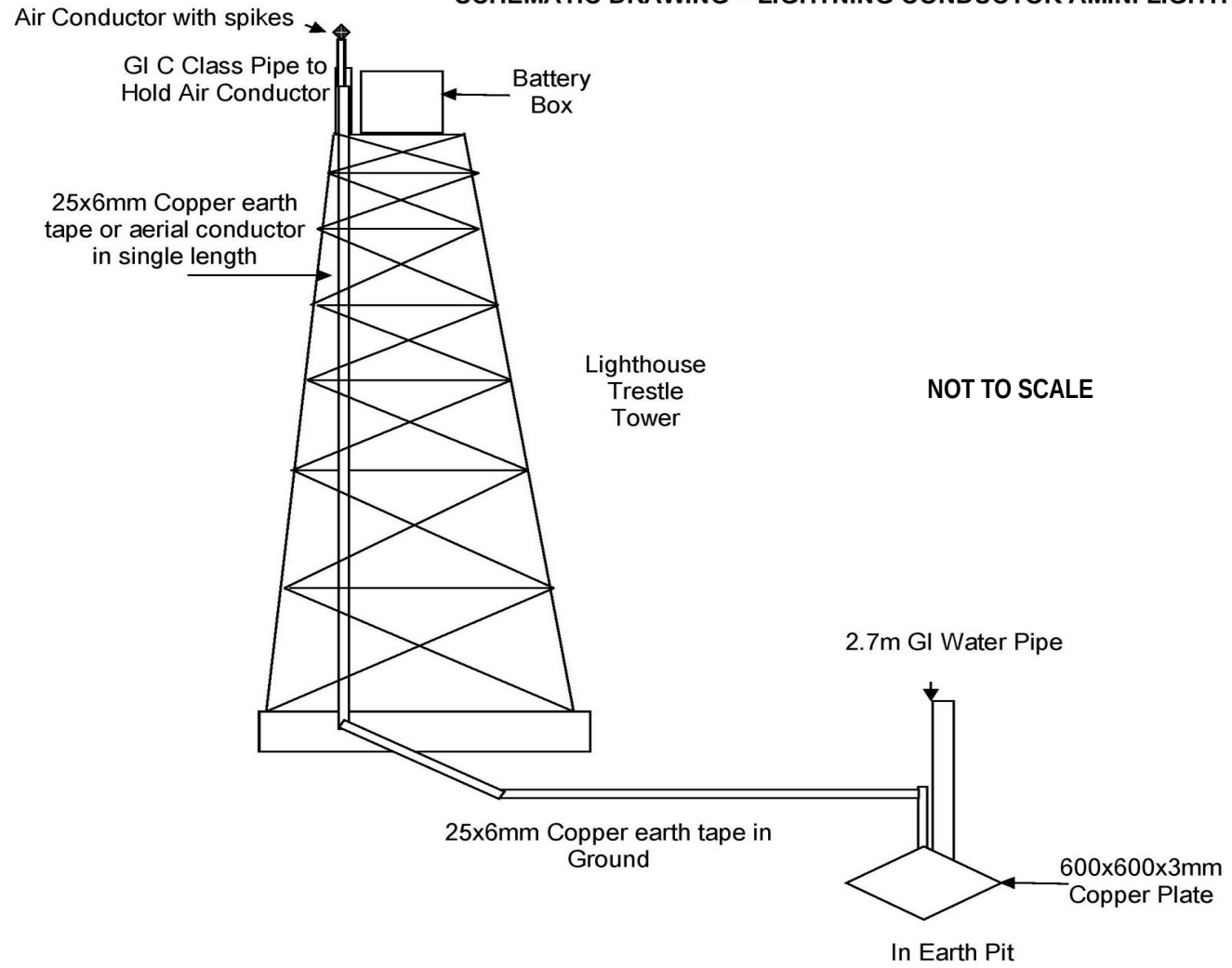
### AMINI LIGHTHOUSE – CLAMP DRAWINGS



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**SCHEMATIC DRAWING – LIGHTNING CONDUCTOR AMINI LIGHTHOUSE**



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