

E-Tender for Extension of existing 36Mtr Four Leg self Supported Microwave Tower on Ground at STPI-Ranchi

**Tender No.251/Part-VII/20(05)/154/STPI-BH/2022,
Date: 04.03.2022**

Last Date for Submission of bids: 26th of March, 2022 at 6.00 PM
Opening of Technical Bids: 28th of March, 2022 at 2.00 PM



SOFTWARE TECHNOLOGY PARKS OF INDIA
(Ministry of Electronics & I.T. (MeitY), Govt. of India)
STPI ELITE TOWER, Plot NO.2/A, IDCO Industrial Area, Gothapatna,
PO-Malipada, Bhubaneswar – 751 003, Odisha
Tel: 0674-2623000

Bids should be submitted online only in www.eprocure.gov.in
The bids will be opened in the presence of authorized representatives of bidders who wish to attend.

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1.0 Introduction

1.1 Software Technology Parks of India (STPI):

Software Technology Parks of India (STPI) was established during the year 1991 by Ministry of Communications & IT, under Department of Electronics & IT, (The then Department of Electronics) Govt. of India with distinct focus for promotion of IT/ITeS exports from the country by providing single window regulatory services under STP & EHTP schemes, plug & play incubation facilities for the start-up companies and young entrepreneurs as well as High Speed Data communication services for a seamless access for offshore IT/ITeS exports. STPI has been successfully delivering Statutory services to the IT/ITeS industries in most industry friendly environment and has earned the goodwill of the industry for its liberal style of functioning.

STPI has Pan India presence with 60 centers across the country including at Ranchi, Deoghar and Dhanbad in the State of Jharkhand.

1.2 Invitation for Bids

Software Technology Parks of India (STPI), Bhubaneswar invites **“E-Tender for Extension of existing 36Mtr Four Leg self Supported Microwave Tower on Ground at STPI-Ranchi”** in Two-Bid System. This tender document is being published on web Portal www.bbs.stpi.in and www.eprocure.gov.in. Eligible bidders are requested to download the document and submit the bids online only in www.eprocure.gov.in. Interested bidders are expected to examine the tender document carefully. Failure to furnish all information required as per the Tender Document may result in the rejection of the Bid.

1.3 Critical Dates

- E-Publishing Date - 04-03-2022, 06:00pm
- Document sale start Date – 04-03-2022, 06:00pm
- Document sale end Date – 26-03-2022, 06:00pm
- Seek clarification start Date - 04-03-2022, 06:00pm
- Seek clarification end Date – 11-03-2022, 06:00pm
- Bid submission start Date – 04-03-2022, 06:00pm
- Bid submission end Date – 26-03-2022, 06:00pm
- Bid opening Date – 28-03-2022, 02:00pm
- Financial Bid opening Date - Will be notified later only to the technically qualified bidders.

2.0 Instruction to Bidders

2.1 Eligibility Criteria for bidder

2.1.1 The bidder should be registered under the Companies Act, 1956 of India. **The bidder should be a Pvt. Limited Company/ Proprietorship/Partnership registered to do business in India. Self attested documentary proof should be provided.**

2.1.2 The **minimum annual turnover of the bidder shall be Rs 12 Lakhs** (Rupee Twelve Lakh) for last FY. Copy of the Turnover Statement **duly certified by Chartered Accountant should be provided.**

2.1.3 The Bidder should not be under a Declaration of Ineligibility for corrupt or fraudulent practices or blacklisted by any of the Government agencies. Declaration should be given by authorized signatory. **Undertaking in this regard must be submitted.**

2.1.4 The Bidder should have valid PAN and GST certification. **(Photocopy to be enclosed with signature, date & seal)**

2.1.5 The bidder should have atleast three years experience of executing similar work in Ministries/Departments of Govt. of India/Central Public Sector Undertakings/ Nationalized Bank/State Government Departments/Autonomous Bodies/ Commercial Institutions. The copy of the experience certificate/work order issued by the respective officer should be provided.

2.1.6 The Bidder should provide tentative drawings of tower structure for extension considering the existing structure.

Note: Supporting documents needs to be submitted in regards to eligibility criteria.

2.2 Language of Bid & Correspondence:

The Bid will be submitted by the Bidder in English language only. All the documents relating to the Bid (including brochures) supplied by the Bidder should also be in English, and the correspondence between the Bidder & STPI will be in English language only.

2.3 Bid Currencies:

2.3.1 Prices shall be quoted in Indian Rupees (INR).

2.3.2 **The bidder shall give the total composite price inclusive of all Levies & Taxes i.e. GST, Labour, Transportation, any incidental services etc on company's Letter Head. However detailed break up of all components need to be specified as per the price schedule format.**

2.4 Submission of the Bid:

2.4.1 The Bid shall be submitted in Sealed Two-Bid system online only in www.eprocurement.gov.in.

BID - Part A: FEE

Bidders are requested to upload the required scanned copies of files as per the following:

- a. Copy of Bid Security Declaration as per format provided in annexure-II

BID - Part A: PRE-QUALIFICATION / TECHNICAL

- a. Scanned copy of Company documents/information in single file as per the format & instructions mentioned in **eligibility criteria of bidder** and tender document.

DOCUMENTS COPY TO BE UPLOADED

- i. Copy of Registration / Incorporation of the firm / Company
 - ii. Copy of PAN, GSTIN
 - iii. Copies of the order and completion certificate for similar work executed
 - iv. Copy of the Turnover Statement for the last three years.
 - v. Tentative drawings of tower structure.
 - vi. Declaration for not blacklisted as per tender terms.
- b. Scanned copy of Acceptance letter as per the format & instructions mentioned in Annexure-I and any other related documents.

BID -Part B: FINANCE

- a. Scanned copy of Commercial Bid as per the format & instructions mentioned in the tender document.

2.4.2 STPI may, at its discretion, extend this deadline. STPI may also extend this deadline for any other administrative reason.

2.4.3 The Bid shall contain no interlineations, erasures or overwriting, in order to correct error made by the Bidder. All corrections shall be done & initialed by the authorized signatory after striking out the original words / figures completely.

2.4.4 Bids sent through Telex /Telegrams/ Fax/ E-mail shall not be acceptable.

2.4 Validity of Quotation:

2.5.1 Bid validity should be 90 days from the specified date of closing.

2.5.2 STPI-Bhubaneswar may ask for the bidder's consent to extend the period of validity. Such request and the response shall be made in writing only. The bidder is free not to accept such request without forfeiting the EMD. A bidder agreeing to the request for extension will not be permitted to modify his bid.

2.5 Clarification regarding Tender Document:

2.6.1 A prospective Bidder requiring any clarification about the Tender Document may request STPI in writing by Fax/ E-Mail (s.mohanty@stpi.in)/ Speed post at the STPI's address indicated in the Invitation for Bids.

2.6.2 The clarification and queries must be submitted in the following format.

Sl. No	Section No	Clause No & Page No	Reference / Subject Clarification

2.6.3 At any time prior to the last date of submission of bids, Tendering Authority (STPI) may for any reason be able to modify the RFP.

2.6.4 Any modifications in RFP or reply to queries shall be hosted only on www.eprocure.gov.in and www.bbs.stpi.in.

2.6.5 STPI at its discretion may extend the last date for the receipt of Bids.

2.6.6 STPI reserves the right to reject/cancel any (bid) or all bids or the RFP without assigning any reason thereof.

2.6 Bid Security (EMD) /Security Deposit/Performance Guarantee

2.7.1 Bidder shall submit Bid Security Declaration as per format provided in Annexure-II.

2.7.2 **10% of the total value of quoted by Successful bidder** will be kept as performance guarantee(PG)/Security Money for 1 year from the date of installation & testing/commissioning. The same will be returned after the completion of contract without interest.

2.7.3 Successful bidder can submit **Performance Bank Guarantee (PG) equivalent to 10% of total order value**, within two week after issuance of order. In that case payment will be deducted from the payment.

2.7 Forfeiture of EMD /Security Deposit/Performance Guarantee

2.8.1 If the successful bidder/agency refuse/fails to accept Purchase Order issued by STPI or the job assigned to the agency/bidder are not done as per the scope of work/schedule of requirement, EMD/Security Deposit will be forfeited and the bidder will not be entertained in future tendering systems of STPI for two years.

2.8.2 If the Bidder withdraws tender before/after finalization of the tender, EMD will be forfeited.

2.8.3 If the contract is terminated by STPI due to poor supply/violation of any clause of agreement or any bad act of selected bidder, security deposit/PG will be forfeited.

2.8.4 In case of unreasonable price quoted by the bidder for disrupt the tender process EMD of such bidder will be forfeited.

2.8 Rejection of the Bid

2.9.1 The bidder is expected to examine all instructions, formats, terms & conditions, and scope of work in the bid document. Failure to furnish complete information or false information/documents which is not substantially responsive to the bid document in all respect shall result in rejection of bid.

2.9.2 In respect of interpretation/clarification of this bid document and in respect of any matter relating to this bid document, the decision of STPI-Bhubaneswar shall be final.

2.9.3 The bidder will have to furnish the requisite document as specified in the bid document, failing which the bid is liable to be rejected.

2.9.4 No prices are to be indicated in the Professional Bid and if the prices are mentioned in the "Technical Bid" it may lead to rejection of the bid.

2.9.5 Bids not submitted as per two bid system will be summarily rejected.

2.9.6 Bids without paper cost & EMD money will be summarily rejected.

2.9.7 The bids received after specified date & time shall not be considered.

2.9.8 The bids received through Fax/-email or any other mode other than specified in the tender document shall not be considered.

2.9 Payment Terms

2.10.1 In case of submission of BG, 80 % of the Material cost will be paid after receipt of the Material at site.

2.10.2 Remaining 20% of material cost and Installation cost will be paid only after completion of all the works and handing over of the tower to the Installation Officer at Site .

2.10.3 In case of non-submission of BG, any payment will be made after deduction of 10% of total contract value, which will kept as performance guarantee for 1 year from the date of installation & testing/commissioning and shall be paid to the vendor after expiry of warranty period.

2.10.4 The payment shall be made after submission of invoice in triplicate in the name of "*The Director Software Technology Park of India, STPI ELITE Tower, Plot No.2/A, IDCO Industrial Area, Gothapatna, PO-Malipada, Bhubaneswar-751003, Odisha*" subjected to satisfactory installation & commissioning report by duly signed by concerned officer and will be released through cheque after deducting TDS as applicable / applicable taxes.

2.10 Evaluation of Bids

The evaluation of the Bids submitted shall be done in following two stages

2.11.1 Technical Evaluation

2.11.1.1 The e-bids shall be opened in front of the bidders and technical evaluation shall be carried out to conform to tender requirements.

2.11.1.2 Technical Evaluation Committee (TEC) will examine the technical e-Bids. This would be a paper evaluation comprising of scrutiny of Technical literature, certificates, compliance statements as per the Technical Bid and any other information submitted by the supplier or asked for by the TEC.

2.11.1.3 If required, STPI may send technical experts to verify the bidder's claim of compliance to experience and technical specifications. This may be performed during the Bid evaluation of the tendering process. The supplier shall make necessary arrangement with the administration to accommodate such visit and provide necessary information and access for evaluation.

2.11.2 Commercial Evaluation

The technically qualified bidders shall be invited during opening of commercial e-bids and subsequently commercial evaluation shall be carried out. If any arithmetic discrepancies found in the commercial bid then actual price will be derived based on the unit price quoted & taxes thereon. If there is any difference between price quoted in figures and words then lowest among these shall be considered for determination of L1.

Initial evaluation / comparison for various categories of items given in the Tender Document will be done on the basis of Gross Bid Value.

The bid with lowest commercial Bid (L1) shall be considered for the award of contract. In case two or more bidder quoted similar L1 rates then the bidder quoted higher technical specification will be considered as L1.

In case two or more bidder quoted similar L1 rates with same specification then the bidder having highest turnover will be considered as L1.

Note: The Bidder shall not quote prices subject to any condition(s). Any conditional financial bid shall be summarily rejected.

2.11 Quantity

The requirement mentioned in the BoQ.

2.12 Warranty

The Tenderer shall give the following comprehensive warranty in respect of the supplied items by them:

2.13. Installation work including items supplied shall carry Minimum ONE Year Onsite warranty commencing from the date of completion and acceptance of STPI. The service support/warranty services have to be provided at STPI, RANCHI. The repairing/rectification, if any of the items under warranty must be done at site only free of cost. The bidder should submit the detailed plan for providing installation and warranty services at site.

2.13 Award of Contract:

2.14.1 STPI shall issue PO/WO to the L1 bidder, prior to the expiry of the period of Bid validity.

2.14.2 The Successful Bidder shall give his acceptance within 1 week days from the date of issue of PO/WO.

2.14.3 The liability of the successful bidder to perform the job will commence from the date of notification of Award. The Completion Period shall be counted from the date of 'Notification of Award of Job'.

2.14 Service Delivery

Service delivery shall be within 12 weeks from the date of PO/Contract. The installation, configuration, testing and commissioning should be completed by the Bidder within four weeks upon the supply of products/equipment/materials at site. If the Service Conditions as per the Contract are not met, the vendor will be blacklisted and they will not be considered for any future proposals.

2.15 Liquidity Damages

2.16.1 Delivery of services shall be made by the vendor in accordance with the time schedule specified by STPI.

2.16.2 The Vendor will strictly adhere to the time-schedule for the performance of Work. However, STPI may relax this time limit in force majeure conditions.

2.16.3 In case of delay in completion the supply and installation within the implementation timelines fixed under tender for reasons attributable to the Vendor, then STPI shall levy penalty @ 1% per week with a maximum limit of 10% of the contract value or PBG may be forfeited. Delay beyond 10 weeks lead to cancellation of PO/WO, forfeiture of EMD and disallowing of participation in future STPI tenders.

2.16.4 Any rectification/repairing during warranty period must be attended within 24hrs of receiving verbal complain from STPI, otherwise penalty for delay in service will be charged by extending warranty period (i.e. one day for 24hrs delay after completion of 24hrs from receiving the verbal complain).

2.16.5 In case of delay beyond 3 days reason adhere to vendor, then penalty @ 1% per week with a maximum limit of 10% of the contract value or PBG may be forfeited.

2.16.6 In case the vendor is not being adhered to the time schedule fixed under contract, STPI has the right to cancel the Contract wholly or in part without any liability to cancellation charges and procure the Goods and Services elsewhere and in a manner decided by the client. In such case the successful Bidder shall pay the difference of the cost of Goods and Services procured elsewhere and price set forth in the Contract Agreement with the successful Bidder/ Contractor.

2.16 General Terms and Conditions

2.17.1 Unit Price must be mentioned in INR Inclusive of transportation cost.

2.17.2 Prices quoted by the bidders should include all taxes, GST, duties, levies, transportation costs, warranty, insurance costs etc., till the bid validity period.

- 2.17.3 The bidder has to submit the OEM authorization for sale, support and service.
- 2.17.4 Vendor has to carryout Supply, Installation, Testing and Operation of materials. There will be no payment for testing, standby/Spare equipments.
- 2.17.5 The Vendor would be required to quote supply, installation and commissioning of the equipments by the vendor at his own cost. The transportation of the materials will be at supplier's risk.
- 2.17.6 Onsite support for rectification of hardware problems provided by vendor at his own cost. Labor support for installation, hardware repair and replacement by vendor at his own cost.
- 2.17.7 Delivery/ installation of the store should strictly be completed within the stipulated period of delivery. Any incident during installation will be supplier's risks.
- 2.17.8 Instruments/Components/materials supplied are liable to be subjected to performance tests and in the case the articles do not function /reach the expected standard, the supplier is liable to replace the items free of cost. Cost of returning goods will be on supplier's accounts.
- 2.17.9 The material must be properly packed against any damage and insured expect where hand delivery is proposed.
- 2.17.10 The rejected item if any shall have to be taken back at vendor's cost and if specified quality is available the same shall be replaced forthwith.
- 2.17.11 STPI reserve the right to reject the items, if found unsuitable and/or not performing the approved specifications.
- 2.17.12 Rate/Price should be clearly quoted in figures as well as in words separately in the prescribed format attached (Price Bid) with make& model. Rate/Price quoted should be inclusive of taxes, GST, freight, insurance etc.
- 2.17.13 If any equipment or part thereof is lost or rendered defective during the transit the supplier shall immediately arrange for the supply of the equipment/materials or part thereof as the case may be.
- 2.17.14 The quoted price shall be firm and fixed and there shall be no change. No additional charges shall be paid other than quoted price in the bid.
- 2.17.15 STPI reserves the right to vary the bill of quantity and the bidder shall supply at the unit price quoted in the bid and the payment shall be done based on total unit price only.
- 2.17.16 The Contracting firm shall not do any damage to the existing Structure and if any damages happened on the above the actual charges incurred for rectification to restore as normal shall be recovered from the firm or it shall be rectified by their own cost.
- 2.17.17 Necessary precautions shall be taken by the contractor or his labours while working near the Road, Power supply cables, on the rooftop, etc.

2.17.18 Safety and safe custody of materials tools and plants that are required by the firm during works, testing, commissioning and till handing over to the STPI shall entirely be the responsibility of the successful bidder.

2.17.19 STPI shall not be responsible for any damage or loss of any of the successful bidder's men and materials and for any damage / accident to the successful bidder's personnel.

2.17.20 The successful agency/bidder shall not be allowed to transfer, assign, pledge or sub contract its right and liabilities under the contract to any other agency.

2.17.21 All the bidders must compulsorily visit the site at STPI, Plot: 8 part, Namkum Industrial area, Namkum, Ranchi-834010, Jharkhand, Tele Fax +91-8986641170,2462270 before quoting the rates so as to understand the exact requirement of System along with its accessories.

2.17 Cancellation by Default

STPI may without prejudice to any other remedy for breach up terms and conditions (including forfeiture of Performance Security by written notice of default sent to the company, terminate the work / task in whole or in part after sending a notice to the Vendor in this regard.

- I. If the Vendor fails to deliver or complete the job assigned in the terms and conditions within the time period (s) specified in the Tender Document.
- II. If the Vendor fails to perform any other obligations under the terms and conditions.

2.18 Blacklisting

Company/Firm blacklisted by Govt./PSU/Corporate organization are not eligible to participate in the bidding process. If at any stage of bidding process or during the currency of work order, such information comes to the knowledge of STPI, STPI shall have right to reject the bid or cancel the work order, as the case may be, without any compensation to the bidder. The bidders have to be submitted an under taking for not being black listed since last 3 years by any Govt./PSU/Corporate organization.

2.19 Confidentiality:

Any information pertaining to STPI or any other agency involved in the project, matters concerning STPI or with the agency that comes to the knowledge of the vendor in connection with this contract will be deemed to be confidential and the Vendor will be fully responsible for the same being kept confidential and held in trust, as also for all consequences of its concerned personnel failing to do so. The vendor shall ensure due secrecy of information and data not intended for public distribution.

2.20 Arbitration

All disputes or difference whatsoever arising between the parties out of or relating to the meaning and operation or effect of the work order or the breach thereof shall be settled by reference to arbitration as per Indian Arbitration Act. In such case the same shall be referred to the sole arbitration of Director, STPI- Bhubaneswar.

2.21 Force Majeure

If, at any time, during the continuance of the agreement, the performance in whole or in any part by either party of obligation under the agreement shall be prevented or delayed by reasons of any war, hostile acts of the enemy, civil commotion, subrogate, fire, floods, earthquakes, explosions, epidemics, strikes and quarantine restrictions by acts of God,(herein after referred to as eventualities) then provided notice of the happening of any such eventualities is given by either party to the other within two days from the date of occurrence thereon, neither party shall, by reason of such eventualities be entitled to terminate this contract agreement nor shall either party have any claim of damages against the other in respect of such non performance or delay in performance. Performance of the contract agreement shall, however be resumed as soon as practicable after such eventuality has come to an end.

3 Scope of Work and Deliverables

Bidders are advised to visit the proposed site of works after taking prior appointment between working hours to inspect and examine the quantum of work and submit the tentative drawing of the proposed tower to be installed along with their tenders. **For inspection/site visit contact the STPI-Ranchi office** (STPI, Plot No. 8 Part, Namkum Industrial Area, Namkum, Ranchi-834010, Tel: 91-651-2462270, 8986641170) **in working hours.**

3.1 Extension of existing 36 Meters Four Leg Self Support Square Tower

3.1.1 Scope of work Extension of existing 36 Meters Four Leg Self Support Square Tower by additional 9meter i.e. 3 sections of each 3meter length.

3.1.2 **Fabricated members are to be Hop Dip Galvanized as per IS standards with latest amendments.**

3.1.3 **All nuts and bolts are to be Hot Dip Galvanized as per IS standards with latest amendments.**

3.1.4 All fabrication shall confirm to provisions of IS standards with latest amendments

3.1.5 **Tower should able to withstand to wind zone 42 m/s of IS:875 [Part 3] [1987] i.e. the wind load of 100 Kg/cm² and wind velocity of 150 KMPH.**

3.1.5 Dismantle and reinstallation of Aviation light and Lightening arrestor with necessary fitnngs as per site requirement. .

3.1.6 Fixing of additional 4 antenna arresters at each height of 45meter, 42meter and 39 meter.

3.1.7 Antenna arresters should be of 1.5 inch in thickness, maintain 90 degree vertically w.r.t. earth.

3.1.8 Tower should have 4 antenna arresters at each height of 36meter, 33meter, 30 meter and 27 meter.

3.1.9 For stability if required, Guy rope support shall provided

3.1.10 **Material to be used for fabrication of tower:** All tower members shall be made out of structural steel conforming to IS-2062, amended to date, and of Class A or Class BR with minimum yield strength of 250 MPa. Tested steel as per IS-226-1962 with latest amendments will be used for bolted work. Tower members should yield strength for steel conforming to IS-1786 with latest amendments. All steel sections will be clearly rolled to the dimensions, size and weight, as per IS 226 with latest amendments. The material shall be free from cracks, surface flaws, lamination imperfection and rough edges.

3.1.11 **Fabrication and Workmanship:** Fabrication of tower material as well as operation such as cutting, straightening, making holes and bolting will be done as per IS 800 with latest amendments. The steel sections will be of correct length. No two sections will be welded to make up for required length of member; the bolts used for connection shall conform to IS-136 with latest amendments. All workmanship for foundation work shall be in accordance with Specifications, approved drawings and IS:456 (with latest amendments). Welding if any shall be carried out in accordance with IS:816, IS:1024 and IS:9595 (with latest amendments) as appropriate. Fabrication tolerances shall not exceed those specified in IS : 7215 as applicable to Group B Structures.

3.1.12 **Galvanization:** All steel members including those of accessories, bolts, nuts, except templates, anchor bolts and anchor plates will be hot dip galvanized in accordance with IS-2633 with latest amendments. Threads of bolts and nuts will be made as to ensure a neat fit. The galvanization of the tower members shall conform to IS:2629 and IS:4759 (with latest amendments). The thickness of hot dip galvanizing shall be generally 85 microns (equivalent to 610g/m² of Zinc Coating) in accordance with IS:4759 (with latest amendments). All galvanized members shall withstand test as per IS:2633& IS:3203 (with latest amendments). All fasteners shall be galvanized in accordance with IS:1367 (with latest amendments) and IS:5358 (with latest amendments). Spring washers shall be electro galvanized as per Grade 4 of IS:1573 (with latest amendments).

3.1.13 **Connection between vertical legs and bracings:** Vertical legs and bracings shall be connected to each other at site by gusset/splice plate with nuts, bolts and washers by user as per design. The design of tower members and joints shall be in accordance with the relevant provisions in BIS documents IS:800[1984].

3.1.14 **Nuts, Bolts & Washers – material:** Nuts & bolts of grade 5.6 as per IS 6639 [1972] IS:1364, IS:1367 Part 8 [1992] and plain washers as per IS 6610[1972] & spring washers of type 'B' as per IS 3063 [194] shall be used. Finish: Nuts, bolts and washers are to be hot dip galvanized as per IS 1367.

3.1.15 **Gusset/Splice plates Material:** MS plates of Grade 'A as per IS:3062 shall be used. All the plates are to be ho dip galvanized as per IS 4759 [1996]. Finish:Zinc for galvanizing should conform to IS:13229 [1991] or IS:209 [1992].

3.1.16 **Legs/Bracings:** MS angles of grade 'A' as per IS 2062 IS 808 [1989] shall be used. All MS angles are to be hot dip galvanized as per IS 4759[1996]. Finish: Zinc for galvanizing should conform to IS: 13229- 1991 or IS : 209 [1992].

3.1.18 **Facilities to be provided on the tower:** Following items will be provided on the tower by the contractor.

I) **Ladder:** Ladder with guard rings should be extended upto 45 m from the base. Ladder width shall be 400mm and spacing between rungs shall be 300mm. The dia of hoops shall be 750mm

II) **Platform:** The platform at the height of 30 metres should be shifted to 45mtr.

III) **Antenna mounting Fixtures:** Each antennae could be mounted on GI/Steel pipe as per IS:1161[1998]. For microwave antennae, then pipes shall be of 100 NB (with 1143mm outside diameter 4.5mm thickness & grade Yst: 22). The fixing arrangement at the required location of the tower shall be as per the drawings. Suitable design of fixtures of mounting of antennae along the legs/faces of the tower should be provided {for solid dish antennas, 0.6m clearance from tower to be provided.

VI) **Arrangement for feeder cable rack and Cable clamps:** Shall be extended upto 45mr.

VII) **Painting of the mast:** The lattice steel portion of the mast should be paint with one coat of epoxy primer and two coatings of epoxy paint (make: Nerolac/ Asian /Berger/ Dulux). The mast shall be painted to have alternate bands of white and international orange with top and bottom bands painted in orange as per the civil aviation regulations. The width of white bands shall be approximately half of the orange bands. The width of orange bands shall be approx. 1/7 th of the total height of the tower. The Ready mixed paint, primer, enamel etc., used for tower painting may be as per the following IS codes

A) IS 2074 (1992): Ready Mixed Paint, Air Drying, Red Oxide Zinc Chrome, Priming – Specifications;

B) IS 2932 (1993): Enamel, Synthetic, Exterior: (a) Undercoating (b) Finishing -specification

C) IS 2933 (1975): Enamel Exterior (a) Undercoating (b) Finishing

VIII) **Maximum tilt:** Maximum tilt at the top of the tower should not exceed ± 0.5 degrees.

IX) **Marking:** Manufacturer's identity marking and item marking shall be provided on each section by punching & painting for enabling easy assembly and traceability. A plate indicating the name of the tower, specification, , manufacturer's identity, year of manufacture and the maximum load capacity of the tower shall be supplied by the manufacturer for display at the bottom of the tower. The top horizontal member of the tower on all the four faces should have center clearly visibly marked for easy check of verticality. The tower supplier shall also provide the tower compound manufacturers identity/source

X) **Verticality:** The verticality for tower of different height shall be within the limits as per IS:12843: 1989 [i.e. the bottom of the line joining the center of the top of tower and the center of the base of the tower should be within the limits. This may be checked in the field after the erection of the tower at site). The limit for 30mtr tower heights is with +/- 20mm.

3.1.19 All the major components of materials for tower shall be procured from the IS approved sources and certificate to this effect shall be given by the manufacturer.

3.1.20 All responsibility for tower erection shall lie with the erection agency which would follow safety norms as per IS7205 (1974).

3.1.21 The splicing connection of the leg members should have plates of sufficient thickness and adequate number of bolts as specified for safe transfer of force between connected members with minimum bolt spacing of 60 mm. The bracing members are to be connected by at least two bolts of required diameter to the leg

3.2 Acceptance Testing:

After installation of the equipment, respective STPI Centers and the Successful Bidder shall mutually agree upon on the required tests to be performed covering physical & functional requirements of the equipment installed. The test reports shall be submitted to respective center of STPI upon completion of the works.

3.3 Completion Certificate & Documentation:

Work Completion certificate shall be issued to respective STPI centers only after completion of work in all respect as per RFP and to the entire satisfaction of STPI. The supplier should provide the following documents:

- I. Structural analysis.
- II. Two copies of detailed drawings including tower and foundation duly certified by architecture
- III. Bill of material along with Installation report

4 Instructions for Online Bid Submission:

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (URL: <http://eprocure.gov.in>). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

4.1 Registration :

4.1.1 Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link "Click here to Enroll" on the CPP Portal is free of charge. 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts. 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal. 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sift / TCS / nCode / eMudhraetc.), with their profile. 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse. 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

4.2 Searching for Tender Documents:

4.2.1 There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.

4.2.2 Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

4.2.3 The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

4.3 Preparation of BIDs:

4.3.1 Bidder should take into account any corrigendum published on the tender document before submitting their bids.

4.3.2 Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

4.3.3 Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black and white option.

4.3.4 To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

4.4 Submission of BIDs:

4.4.1 Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.

4.4.2 The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

4.4.3 Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.

4.4.4 Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the Tender Processing Section, latest by the last date of bid submission. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.

4.4.5 A standard BoQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the Details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

4.4.6 The serve time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

4.4.7 All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.

4.4.78 The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

4.4.9 Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

4.4.10 The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

4.5 Assistance to bidders

4.4.1 Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

4.4.2 Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. ***The contact number for the helpdesk is 0120-4200462, 0120-4001002, Mobile: 91-8826246593, E-Mail: support-eproc@nic.in***

ANNEXURE-I
TECHNICAL BID DOCUMENT

1	Name of Agency/Firm	
2	Profile of the Agency/Firm	
3	Name of Proprietor/Director of the Agency	
4	Full address of Registered Office	
	Telephone No.	
	Fax No.	
	Mobile No.	
	(d) E-mail address	
5.	Correspondence address of office	

6	Valid Licence No., if any					
7	Registration No. of the Agency					
8	PAN No. of the agency (Attach attested copy of PAN Card of the Agency)					
9	GST No. (Attach attested copy of the Registration Certificate)					
10	Turnover of the Bidder				FY 20-21	
					FY 19-20	
					FY 18-19	
11	Details of major contracts with Central Government/State Government/PSU/Reputed Private Firms handled by the tendering agency/bidder during the last two years (in the following format (attested copies of the last two years work award may be enclosed).					
	SN	Details of client along with address telephone and Fax No. & Email address	Amount of Contract (Monthly/ Rs.lacs)	Duration of Contract		Nature of Contract
				From	To	
	I					

	II					
	III					
	IV					
	V					

(If the space provided is insufficient, a separate sheet may be attached).

**DECLARATION REGARDING ACCEPTANCE OF TERMS & CONDITIONS CONTAINED IN
THE TENDER DOCUMENT**

I..... son/daughter/wife of
Shri/Smt..... Proprietor/Director/authorized signatory
of the agency mentioned above is competent to sign this declaration and execute
this tender document.

I have carefully read and understood all the terms and conditions laid down in
the tender and undertake to abide by them. The corrigendum(s) issued from time
to time by your department/organization too has also been taken into
consideration, while submitting this acceptance letter.

The information/documents furnished along with the above bid/application are true and authentic to the best of my knowledge and belief. I hereby declare that my company / LLP / Partnersip / Society / Proprietorship has not been debarred / blacklisted by any Government / Semi-Government organizations/ PSUs. I am well aware of the fact that furnishing of any false information/fabricated document would lead to rejection of my tender/bid at any stage besides liabilities towards prosecution under appropriate law.

(Signature of the authorized person)

Name.....

Date.....

Place.....

Office Seal

ANNEXURE-II

Bid Security Declaration Format (To be printed on letter head of bidder)

Ref:

Date:

To,
The Director
Software Technology Parks of India
C-Ground Zero, Fortune Tower, Chandrasekharpur,
Bhubaneswar – 751023, INDIA

Sub : Bid Security Declaration - Reg.

Ref : 1. Tender No: Dated

1. Bidder's offer no. _____ Dtd. _____

I, _____ (Name of authorized Signatories), on behalf of M/s. _____ (Bidder's name and address), duly authorized to sign the tender document and enter into contract, if awarded, herewith accept that if the bidder withdraw (or) modify our bid during period of validity, etc, the bidder will be suspended/debarred/blacklisted for a period of two years from the due date of the tender.

(Signature of Authorized Signatory)

Designation:

Name of Bidder:

Seal

APPENDIX 'I'

FORMAT OF THE PERFORMANCE BANK GUARANTEE

To,

**Software Technology Parks of India,
Bhubaneswar.**

WHEREAS (Name and Address of the supplier)
(here in after called "the supplier") has undertaken, in pursuance of contract no..... dated
..... to supply (description of goods and services) (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank
guarantee by a scheduled commercial recognized by you for the sum specified therein as security for compliance
with its obligations in accordance with the contract;

AND WHEREAS we (Name of the Bank) have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to
a total of

..... (amount of the guarantee in words and figures), and we (Name of
the Bank) undertake to pay you, upon your first written demand declaring the supplier to be in default under the
contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid,
without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We (Name of the Bank) hereby waive the necessity of your demanding the said debt from the supplier before
presenting us with the demand.

We (Name of the Bank) further agree that no change or addition to or other modification of the terms of the contract
to be performed there under or of any of the contract documents which may be made between you and the supplier
shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change,
addition or modification. This guarantee shall be valid until the day of, 20.....

.....
(Signature of the authorized officer of the Bank)

.....
Name and designation of the officer

.....
Seal, name & address of the Bank and address of the Branch

WITNESS 1

.....(Signature)

Attorney as per Power of Attorney:

WITNESS 2

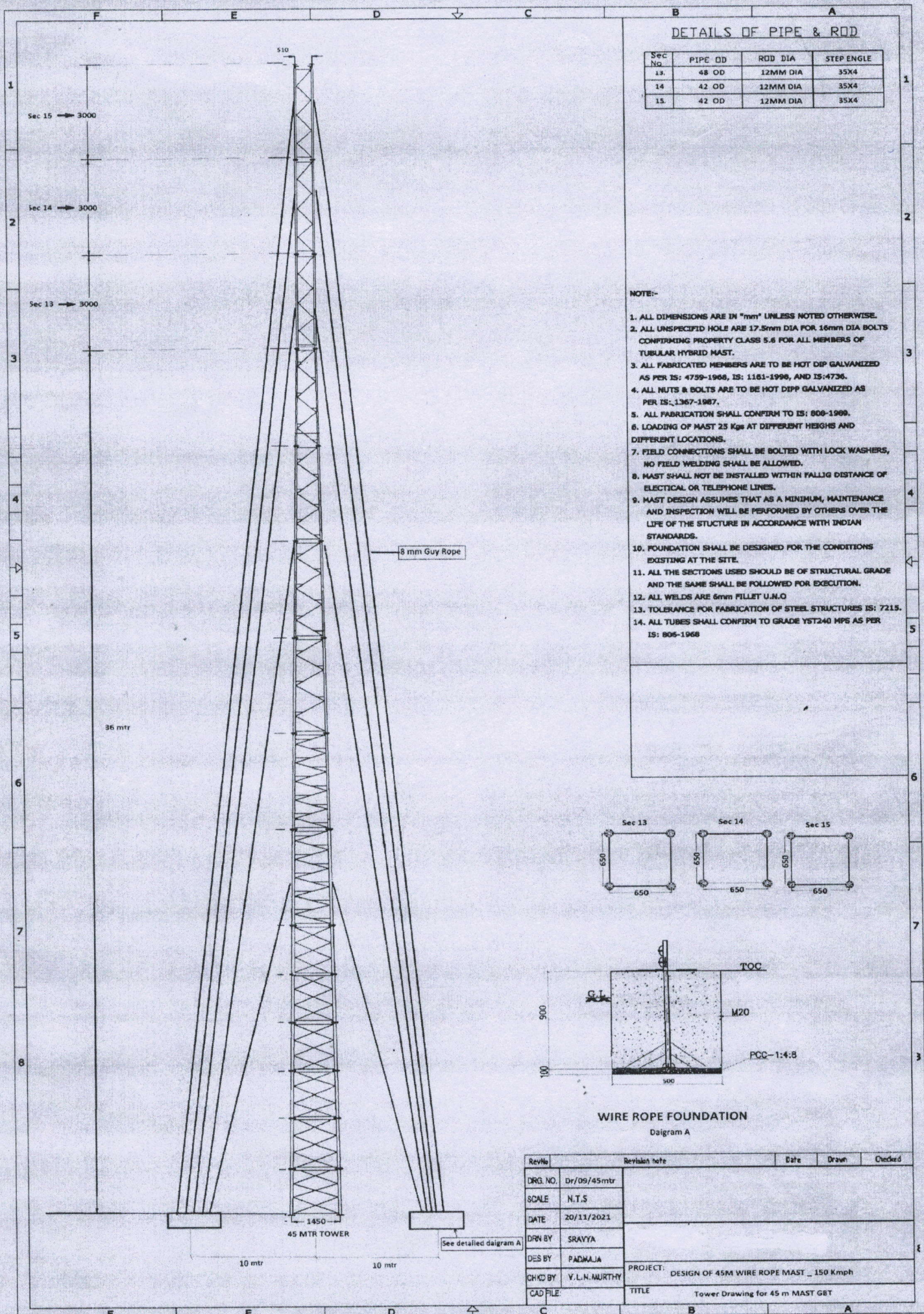
..... (Signature)

Attorney Number & Date

FORMAT FOR COMMERCIAL OFFER

SN	Particular with Description	Unit Price in Rs.	Qty	Total Price in Rs.
PART – A (Supply of materials)				
1	Extension of existing 36Mtr. four legs self supported Radio Tower at STPI-Ranchi by another 9Mtr. (3 section of each 3 mtr. length) with Guy rope support if required in all complete As per specification in 3.0		1 Lot	
2	Any other items not covered above but required for full filing the scope of work (Full details and quantity to be furnished)		1Lot	
3	Taxes (if any including GST, freight, Entry tax, etc.)			
4	Total Rs. i.e. (1+2)			

Total in Words:

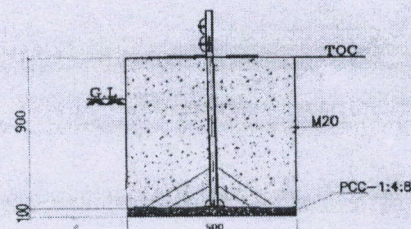
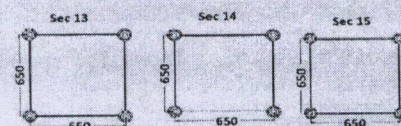


DETAILS OF PIPE & ROD

Sec No	PIPE OD	ROD DIA	STEP ENGL
13.	48 OD	12MM DIA	35X4
14	42 OD	12MM DIA	35X4
15.	42 OD	12MM DIA	35X4

NOTE:-

- ALL DIMENSIONS ARE IN "mm" UNLESS NOTED OTHERWISE.
- ALL UNSPECIFIED HOLE ARE 17.5mm DIA FOR 16mm DIA BOLTS CONFIRMING PROPERTY CLASS 5.6 FOR ALL MEMBERS OF TUBULAR HYBRID MAST.
- ALL FABRICATED MEMBERS ARE TO BE HOT DIP GALVANIZED AS PER IS: 4759-1968, IS: 1161-1998, AND IS:4736.
- ALL NUTS & BOLTS ARE TO BE HOT DIP GALVANIZED AS PER IS: 1367-1987.
- ALL FABRICATION SHALL CONFORM TO IS: 800-1989.
- LOADING OF MAST 25 Kgs AT DIFFERENT HEIGHTS AND DIFFERENT LOCATIONS.
- FIELD CONNECTIONS SHALL BE BOLTED WITH LOCK WASHERS, NO FIELD WELDING SHALL BE ALLOWED.
- MAST SHALL NOT BE INSTALLED WITHIN FALLING DISTANCE OF ELECTRICAL OR TELEPHONE LINES.
- MAST DESIGN ASSUMES THAT AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED BY OTHERS OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH INDIAN STANDARDS.
- FOUNDATION SHALL BE DESIGNED FOR THE CONDITIONS EXISTING AT THE SITE.
- ALL THE SECTIONS USED SHOULD BE OF STRUCTURAL GRADE AND THE SAME SHALL BE FOLLOWED FOR EXECUTION.
- ALL WELDS ARE 6mm FILLET U.M.O
- TOLERANCE FOR FABRICATION OF STEEL STRUCTURES IS: 7215.
- ALL TUBES SHALL CONFIRM TO GRADE YST240 MP5 AS PER IS: 806-1968



WIRE ROPE FOUNDATION
Daigram A

RevNo	Revision Note	Date	Drawn	Checked
DRG. NO.	Dr/09/45mtr			
SCALE	N.T.S			
DATE	20/11/2021			
DRN BY	SRAYYA			
DES BY	PADMAJA			
CHKD BY	V.L.N.MURTHY			
CAD FILE				
PROJECT: DESIGN OF 45M WIRE ROPE MAST _ 150 Kmph				
TITLE Tower Drawing for 45 m MAST GBT				