



प्रसारभारती / PRASAR BHARATI

(भारतकालोकसेवाप्रसारक/ INDIA'S PUBLIC SERVICE BROADCASTER)

अपरमहानिदेशककाकार्यालय(अभि.) (द.क्षे.) / O/o. ADDL. DIRECTOR GENERAL (E)(SZ)

आकाशवाणीएवंदूरदर्शन / AKASHVANI& DOORDARSHAN

स्वामीशिवानंदासालै, चेन्नई/ SWAMY SIVANANDA SALAI, CHENNAI – 600 005

e-mail: adgszpurchase@prasarbharati.gov.in

BID DOCUMENT

For

Dismantling, Transportation, Design and Construction of Foundation, Erection of 45 m High Self-Supporting Lattice Steel Tower at Akashvani Mahabubnagar as per specification

Bid document Ref: No.J-11011/81/2026-PURCHASE-ADG(E)-(SZ)

Date:04.09.2026

Bid Due Date & Time for Online Submission	25.09.2026 at 15:30 Hrs.
Bid Due Date & Time for Bid Opening	25.09.2026 at 16:00 Hrs.

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ABBREVIATIONS USED IN THE DOCUMENT

SL NO.	ABRIVIATION	FULL FORM
1	BDS	Bids Data Sheet
2	CPPP	Central Public Procurement Portal
3	CVC	Central Vigilance Commission
4	DP	Delivery Period
5	DSC	Digital Signature Certificate
6	EMD	Earnest Money Deposit
7	FOR	Free on Rail/Road
8	GST	Goods and Service Tax
9	GSTIN	Goods and Service Tax Identification Number
10	GTC	General Terms &Conditions
11	HSN/ SAC	Harmonized System Nomenclature / Service Accounting Code
12	IEM	Independent External Monitor
13	IFB	Invitation for Bid
14	INR	Indian Rupees
15	IP	Integrity Pact
16	ITB	Instructions to Bidders
17	JV	Joint Venture
18	L-1	Lowest Tender
19	LPP	Last Purchase Price
20	MSME	Micro, / Small & Medium Enterprise
21	NEFT	National Electronic Funds Transfer
22	OEM	Original Equipment Manufacture
23	PBG	Performance Bank Guarantee
24	RTGS	Real Time Gross Settlement
25	SITC	Supply, Installation, Testing &Commissioning.
26	SETC:	Supply, Erection, Testing &Commissioning.
27	AITB	Appendix to instruction to Bidders
28	TIS	Tender information Summary

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1."INVITATION FOR BID (IFB)"

Ref No: J-11011/81/2026-PURCHASE-ADG(E)-(SZ)

Date 04.09.2026

Sub: Dismantling, Transportation, Design and Construction of Foundation, Erection of 45 m High Self Supporting Lattice Steel Tower at Akashvani Mahabubnagar as per specification

Dear Sir/Madam,

1.1 On behalf of the Prasar Bharati (India's Public service Broadcaster), AIR/ Doordarshan, digitally signed E-tenders are invited from eligible bidders in the prescribed Bid Proforma under Two bid system for Works in the subject in complete accordance with the following details and enclosed Bid Documents, as prescribed at Annexure, <Form No. 1 to 14>The details of tender are given below:

1.2 Bids Data Sheet: The brief details of the tender are as under:

1.2.1	Tender Inviting Authority	DDG (Purchase) O/o ADG(E)(SZ) Chennai
1.2.2	Name of the Supply /Work	Dismantling, Transportation, Design and Construction of Foundation , Erection of Self Supporting 45 M High Lattice Steel Tower at Akashvani Mahabubnagar as per specification
1.2.3	Tender Reference No.	J-11011/81/2026-PURCHASE-ADG(E)-(SZ)
1.2.4	Place of availability of Tender Documents (RFPs)	1. Procurement Portal of Prasar Bharati http://prasarbharati.eproc.in 2. Website of Prasar Bharati, https://prasarbharati.gov.in/ 3. Central Public Procurement Portal (CPPP): http://www.eprocure.gov.in
1.2.5	Estimated Cost of the Tender	Rs. 45,00,000/- (Rupees Forty five Lakhs only)
1.2.6	Tender Processing Fee	Rupees. One thousand ninety two only Rs. 1092/- (shall be collected through the e-procurement Portal)
1.2.7	Earnest Money Deposit (EMD)	Rs. 90,000/-(Rupees Ninety Thousand Only)
1.2.8	Address to send Pre bid Queries	Email: adgszpurchase@prasarbharati.gov.in
1.2.9	Nature of bid process	TWO BID System 1.Technical Bid 2.Commercial Bid
1.2.10	Broad Scope of Work	Refer :Appendix- D
1.2.11	Bid Validity up to:	120 (One Hundred Twenty) days from the date of opening of Technical Bid.
1.2.12	Bid Bond Validity up to :	165 days (Bid validity + 45 days beyond bid validity.)
1.2.13	Date of publication of Bid	04.09.2026

1.2.14	Last Date & Time for Submission of written queries by bidders	09.09.2026
1.2.15	Date & Time of Pre- bid Conference	11.09.2026. 11.00 A.M.
1.2.16	Place for Pre-bid meeting	All India Radio, Mahabubnagar. Pre-bid meeting is Mandatory
1.2.17	Opening of Technical bid	25.09.2026 at 16.00 P.M
1.2.18	Opening of Commercial bids	To be informed later
1.2.19	Address for Communication	The Deputy Director (Eng) /Assistant. Engineer(Purchase) O/o The Additional Director General (E) (SZ) All India Radio and Doordarshan CHENNAI - 600005
1.2.20	Paying Authority	SAO,O/o ADG(E)(SZ), AIR &DD,Chennai
1.2.21	Eligibility to Participate	As mentioned in Annexure D
1.2.22	Is this item reserved for exclusive Procurement from MSEs	No
1.2.23	Nature of Bidders eligible – OEMs/ Dealers authorised by OEMs	YES
1.2.24	Entities from countries not eligible to participate on reciprocal basis - (Make in India Policy)	Yes
1.2.25	Minimum local content for eligibility to participate (Make in India Policy)	More than 20%
1.2.26	Classes of Local Suppliers eligible to participate (Make in India Policy)	Only Class-I and Class-II local Suppliers eligible (Domestic Tenders)
1.2.27	Mandatory Joint venture with Indian Company (Make in India Policy)	Yes
1.2.28	Thresholds for Eligibility to Participate and Preference under Make in India Policy	
1.2.28.1	Classification of Local Suppliers based on Minimum local content	[Class-I Local Suppliers.50% Class – II Local Supplier more than 20% But less than 50% Non-Local Supplier less than 20%)
1.2.28.2	The margin of purchase preference	20%
1.2.28.3	Is the requirement divisible for preference	No
1.2.28.4	Would the contract be split among more than one bidder	No

Note: In case the days specified above happen to be a holiday in Prasar Bharati, the next working day shall be implied.

- 1.3 Instructions to Bidders: As per Appendix-A
- 1.4 General Terms and Conditions: As per Appendix-B
- 1.5 Bid Evaluation Criteria: As Per Appendix-C
- 1.6 Delivery Period: As per Appendix-D.
- 1.7 **Technical Specification: As per Appendix-D.**
- 1.8 The Bid Security/Performance Security from any Indian scheduled Commercial Bank would be acceptable.
- 1.9 **Warranty:** Required as per clause 3.9 of Appendix-B (General Terms and Conditions).
- 1.10 **Performance Security Deposit:** Required as per Clause 3.8 of Appendix-B (General Terms and Conditions) and Annexure- 14 (Form -14).
 - 1.10.1 **Amount: 3 % of the value of the contract as specified in Rule 171(i) of GFR,2017or O.M issued by MOF, Dept of Expenditure on 30.12.2021 or it is contingent based on revision of O.M if any at the time of placing order**
 - 1.10.2 Performance security shall be valid beyond **Two months** from date of completion of work /supply on expiry of guarantee whichever is later.
- 1.11 Bids shall be submitted in physical mode only as per the ITB; EMD/Bid Security have to be submitted in the form of DD/FDR/TDR/ Bank Guarantee /by the bidder before the due date & time of the opening of the bid, and copy of the same shall also be uploaded along with the Technical Bid within the Due Date & Time of Bid Submission, to the address mentioned in Bid Data Sheet (BDS):-
- 1.12 Bidder(s) are advised to submit their bid strictly as per terms and conditions of the Tender Documents and not to stipulate any deviations.
- 1.13 A Nil deviation Certificate as mentioned in the Form-6 shall have to be essentially submitted by the Bidder along with the Technical Bid.
- 1.14 The Tender will be governed by the “Instruction to the Bidder” as per Appendix-A; “General Terms and Conditions” placed at Appendix-B and “Technical Specifications” at Appendix-D. The contract will be governed by Indian laws including the Indian Contract Act, 1872;the Sale of Goods Act, 1930;Right to Information Act, 2005; The Micro, Small and Medium Enterprises Development Act, 2006; Prevention of Corruption Act, 1988; and Arbitration and Conciliation Act, 1996, etc, as amended from time to time. The contract will also be governed by General Financial Rules, 2017, Manual for procurement of goods and works 2017 and 2019, Delegation of Financial Power Rules and any other financial, vigilance, security, safety, counter- trade and other regulatory aspects, orders and guidelines of the Government on the subject of Public Procurement as amended from time to time in so far as they are applicable and not inconsistent with the conditions mentioned in the tender document.
- 1.15 Prasar Bharati will follow the reciprocal market access strategy of the Government of India, which describes on the Clause 10 (d) of Public Procurement Preference to Make in India, Order 2017. The Purchaser reserves the right to not consider any Bid and may restrict such

Bidders from the bidding process who originate from those countries, where they do not allow market access for Indian companies; in such cases, the Clause 10(d) of Public Procurement Preference to Make in India, order 2017, shall be invoked wherever applicable, when it is relevant

- 1.16 Single Stage Two Bid Systems shall be followed for this tender. Bidders should take due care to submit tenders in accordance with Bid requirements as specified in clause 2.1 of “Instruction to Bidders” (Appendix-A). Bid evaluation Criteria at Appendix-C shall be the basis for evaluation of tenders.
- 1.17 **For Payment terms pertaining to Supply contracts and SITC/SETC/DSETC Contracts, please refer to clause 2.24 of the tender document.**
- 1.18 As per clause 171(1) of CGST Act, 2017 which relates to anti-profiteering measure, any reduction in rate of tax on any supply of goods and or services or both, the benefit of input tax credit shall be passed on to the recipient by way of commensurate reduction in prices.
- 1.19 THE FOLLOWING SHOULD BE SUBMITTED ALONG WITH THE TENDER.
 - 1.19.1 Original Equipment's Manufacturer's authorization for equipment quoted.
 - 1.19.2 **Documents as specified in Technical Specifications at Appendix-D**

1.20 Paying Authority: SAO, O/o ADG(E)(SZ) AIR & DD, Chennai -5

Note: Supplier has to provide Consignee-wise Tax Invoices to respective Bill Processing Authorities. The GST Compliant Invoices should have firm's GSTIN & Consignee GSTIN.

1.21 Prasar Bharati follows e-tendering Process, Bid shall be submitted only on [:https://prasarbharati.eproc.in](https://prasarbharati.eproc.in). The responsive Bids shall be decided according to various aspects mentioned in ITB, GTC and Eligibility conditions mentioned in the Bid Document. Before the Bid submission, Bidders are advised to refer the help manuals and general FAQs provided in the E-procurement Portal regarding the e-tendering.

1.22 Clarification(s)/Corrigendum(s) if any shall also be available on referred above websites Para 1.2.4. Any revision, clarification, addendum, corrigendum, time extension, etc. to the Tender Document will be hosted on the above-mentioned website(s) only. Bidders are requested to visit the website regularly to keep themselves updated.

1.23 EVALUATION METHODOLOGY: Price evaluation shall be as under: The “Schedule of Rates / Prices” quoted for complete scope of work /Supply inclusive of GST shall be taken up for evaluation, on overall L-1 basis.

1.24 Purchase Preference (Linked with Local Content): Applicable as per government guideline/Tender Document. (Refer Para 4.5)

1.25 In case anycess on GST is applicable same shall also be considered in evaluation.

1.26 The Bidders shall quote on FOR destination basis only.

For & on behalf of Prasar Bharati,
(Authorized Signatory) Name: V Dinesh Kumar DDE

1. INSTRUCTION TO BIDDERS (ITB)

2.1 INSTRUCTIONS TO BIDDERS FOR ONLINE BID SUBMISSION:

- 2.1.1 The scope of work / Supply of stores to be tendered are available in the complete bid documents which can be viewed / downloaded free of cost from e-procurement portal of Prasar Bharati, <https://prasarbharati.eproc.in>, or from the website Prasar Bharati, www.prasarbharati.gov.in or CPP Portal <http://eprocure.gov.in>.
- 2.1.2 Both Technical Bid and Financial Bid will be submitted concurrently duly digitally signed on the website <https://prasarbharati.eproc.in>
- 2.1.3 No claim shall be entertained on account of any Technical snag or disruption of internet service being used by bidders. Bidders are advised to upload their bids well in advance to avoid last minute technical snags.
- 2.1.4 All Corrigendum/Amendment/Corrections, if any, will be published on the website <https://prasarbharati.eproc.in>
- 2.1.5 All documents / papers uploaded / submitted by the bidder must be in English and legible.
- 2.1.6 It is mandatory for all the applicants to have Class-III Digital Signature Certificate, with both DSC Components i.e. signing & Encryption, (in the name of the person who will sign the bid document) from any of the licensed Certifying Agency. Bidder may contact the Service provider of e-procurement Portal, at mobile no. +91-8130606629 for DSC related queries or can email at vikas.kumar@c1india.com
- 2.1.7 The Bidders/ Vendors shall be charged the Processing Fees in according with the Estimated Cost of respective Tenders. The following are the charges to be paid by the Bidders /Vendors on the e-procurement portal:

Estimated value of Tender	Processing fees as on 1357.00	
	Per Tender Per Bidder	Total including GST
Less than or Equal to Rs. 10 Lakhs	₹ 475.00 + 18 % GST	₹560.50
More than 10 Lakhs but Less than or equals to 50 Lakhs	₹ 925.00 + 18 % GST	₹1091.50
More than 50 Lakhs	₹ 1150.00 + 18 % GST	₹1357.00
Annual charges for Online Bidder / Vendor for the Registration	₹ 450.00 + 18 % GST	₹531.00

- 2.1.8 To participate in the e-bid, it is mandatory for the Applicants to get themselves registered with the Prasar Bharati e-Tendering Portal (<https://prasarbharati.eproc.in>) to have a user ID & Password which has to be obtained by submitting a non-refundable annual registration charges of Rs. 450/- plus 18% GST through online mode (net banking/debit card/credit card). Validity of Registration is 1year.
- 2.1.9 Page No. shall be given on each and every paper/documents serially uploaded in the technical bid.

- 2.1.10 Bidders shall ensure to quote rate of each item. If any cell is left blank and no rate is quoted by the bidders, the rate of such item shall be treated as “0” (Zero).
- 2.1.11 To participate in bidding, bidders have to pay Tender Processing Fee as mentioned in the Para 2.1.7 through online mode (net banking/debit card/credit card).
- 2.1.12 The Bidder may modify or withdraw their bid after submission prior to the Bid Due Date. No Bid shall be modified or withdrawn by the Bidder after the Bid Due Date and Time.
- 2.1.13 The Bid Security/Earnest Money shall be in the form of Account Payee Demand draft, from any scheduled bank(s), Fixed Deposit Receipt (FDR), Bankers Cheque or Bank Guarantee from an Indian scheduled Commercial Bank, **in favour of PRASAR BHARATI CORPORATION ADDL DIRECTOR GENERAL payable at Chennai.** In case of EMD Exemption, letter along with NSIC Certificate for MSME in the concerned category of the Tendered items.
- 2.1.14 Bid Security/EMD shall be placed in a single sealed envelope superscripted with tender reference no. and date of opening so as to reach. The **Deputy Director (Engineering) (Purchase)/Assistant Engineer (Purchase) in Room No.228, O/o, ADG(E)(SZ) AIR & DD, Swami Sivananda Salai, Chennai-600 005.** before scheduled time on prescribed tender opening date. EMD received after Tender opening date shall be summarily rejected along with the corresponding Tender. Hard copy of any other tender document shall not be accepted. Soft copy of the EMD should be uploaded while submitting bids on e-tendering portal.
- 2.1.15 Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or are registered with the Central Purchase Organisation or the concerned Ministry or Department or Start-ups as recognised by Department of Industrial Policy & Promotion (DIPP) shall be exempted from payment in respect of cost of Earnest Money as per the Government instructions on the subject on submission of documentary evidence of valid Registration in the concerned category of the Tendered items.
- 2.1.16 The successful Bidders will be required to furnish Performance Security Deposit within 30 days of placement of contract at **the rate of 3 % (Three percent) of value of contract as applicable vide OM issued by MOF, Dept of Expenditure on 30.12.2021 or it is contingent based on revision of OM if any at the time of placing Order** in one of the acceptable forms as per tender documents. Performance Security shall be in the form of Account Payee Demand draft, from any scheduled bank(s), Fixed Deposit Receipt (FDR), Bankers Cheque or Bank Guarantee from an Indian scheduled Commercial Bank in an acceptable form.
- 2.1.17 Technical Bid must contain scanned copy of Unconditional Acceptance of PrasarBharati's Tender Terms & Conditions, GST details and EMD etc.
- ~~2.1.18 In case of payment through net banking the money will be immediately transferred to Prasar Bharati's designated Account through from any scheduled bank(s); the bidder will have to furnish the UTR Remittance Number(s) before submission of bid, payment details shall also be uploaded on procurement portal along with Bid. The payment of EMD through NEFT /RTGS mode should be made well ahead of time to ensure that the EMD amount is transferred to Prasar Bharti account before submission of bid.~~
- 2.1.19 The financial Bid shall be opened only of those Bidder(s) found to be meeting the Technical qualifying requirements. In case of non-responsive Bids, Financial Bids shall not be opened. The opening date of financial bid will be decided later on and same will be

informed to eligible Bidders in advance.

- 2.1.20 **Bidders are advised to submit written queries in advance of the Pre-Bid Meeting.** The Form # 13 can be used for this purpose. After the Meeting, the techno-commercial requirements may be revised, if considered necessary. After that no request/query will be entertained
- 2.1.21 Prasar Bharati reserves the right to accept or reject any or all applications without assigning any reasons. Prasar Bharati also reserves the right to annul the tender process at any stage without assigning any reason.
- 2.1.22 If any clarification is needed from the bidder about the deficiency in his uploaded documents, he will be asked to provide it through e-procurement portal of Prasar Bharati/e-mail. The bidder shall upload the requisite clarification/documents within time specified by Prasar Bharati, failing which tender will be liable for rejection.
- 2.1.23 Prasar Bharati reserves the right to reject whose performance at ongoing Supply/ Work(s) is below par and usually poor and has been issued letter of restrain/Temporary/Permanent debar by any office of Prasar Bharati, Government or Public sector. (Rule 151, GFR 2017) Prasar Bharati reserves the right to verify the credential submitted by the agency at any stage (before or after the award of the work). If at any stage, any information /documents submitted by the applicant is found to be incorrect/false or have some discrepancy which disqualifies the firm then Prasar Bharati shall take the following action:
- 2.1.23.1 Forfeit the entire amount of EMD submitted by the firm.
- 2.1.23.2 The agency shall be liable for debarment from tendering in Prasar Bharati, apart from any other appropriate contractual/legal action.
- 2.1.23.3 Public procurement policy for Micro, small and medium enterprises registered under MSME shall be followed as per the directives of Government of India prevailing at the date of acceptance
- 2.1.24 Bidders have to submit a GST Registration Certificate while uploading the tender.
- 2.1.25 **Bidders shall separately indicate the HSN/SAC code, rate and amount of GST for each quoted item as applicable on the date of tendering in their offer, failing which the offer may be rejected.**
- 2.1.26 IGST and Compensation Cess (wherever applicable) will be levied on imports.
- 2.1.27 Terms& Conditions given in Technical specifications will supersede for conflict with any terms &conditions given in Tender Document.
- 2.1.28 **For Consortium / Joint Venture :**
- In case of a Consortium/JV, Power of Attorney issued by Board of Directors/ Chairman/CEO / MD / Company Secretary of the Consortium Lead Member as well as Consortium Member(s) of the Consortium/ partners of JV, in favour of the authorized employee(s) of the Consortium /Lead member of JV, for signing the documents on behalf of the Bidder, in respect of this particular tender, to sign the Bid and all subsequent communications, agreements, documents etc. pertaining to the tender and act and take any and all decisions on behalf of the Consortium/JV, are to be submitted.
- 2.1.29 The authorized employee(s) of the Bidder shall be signing the Bid and any consequence resulting due to such signing shall be binding on the Bidder.

- 2.1.30 Bids from consortium/ JV of two or more members (maximum 3 nos. Including Leader) are acceptable provided that they jointly fulfill the qualification criteria and requirements stated in the Tender Documents. Participating Consortium/ JV shall submit the Agreement, clearly defining the scope and responsibility of each member. Members of consortium/ JV shall assume responsibility jointly & severally. The bid security shall be submitted by the Lead Bidder of the Consortium/ JV. In case of award, payment shall be made to the Lead Bidder of the Consortium/JV.
- 2.1.31 The Consortium/ JV Agreement must clearly define the Consortium Leader/ Lead Partner of JV, who shall be responsible on behalf of the Consortium/JV during the period of evaluation of the bid as well as during the execution and timely completion of all the contractual obligations and shall receive/ send instructions for and on behalf of the Consortium/JV.
- 2.1.32 A Consortium/ JV once established at the time of submitting the Bid shall not be allowed to be altered with respect to constituting members of the Consortium/ JV or their respective roles/ scope of supply/work, except with prior written approval of Prasar Bharati. If during the evaluation of bids, a Consortium/JV propose any alteration/ changes in the orientation of Consortium/JV or replacements or inclusions or exclusions of any partner(s)/ member(s) which had originally submitted the bid, bid from such Bidder shall be liable for rejection.
- 2.1.33 Any member of the Consortium/ JV shall not be eligible either in an individual capacity or be a part of any other Consortium/JV to participate in this tender. Further, no member of the Consortium/ JV should have been put on 'Holiday' or banned/ blacklisted by Prasar Bharati/ Government department/ Public Sector as on the due date of submission of bid. Offer submitted by such Consortium/ JV shall not be considered for opening/evaluation/Award
- 2.2 ONE BID PER BIDDER**
- 2.2.1 A Bidder shall submit only 'one [01] Bid' in the same Bidding Process. A Bidder who submits or participates in more than 'one [01] Bid', will cause all the Bids in which the Bidder has participated to be disqualified.
- 2.2.2 Alternative Bids shall not be considered.
- 2.2.3 Any Bidder having formed a JV/Consortium shall not be considered eligible to make JV/ consortium with any other bidder or form part of any other JV/Consortium and submit a Bid for the same tender.
- 2.3 COST OF BIDDING**
- 2.3.1 The Bidder shall bear all cost associated with the preparation and submission of the Bid including but not limited to Documentation Charges, Bank charges, all courier charges, translation charges, authentication charges and any associated charges including taxes & duties thereon. Further, Prasar Bharati will in no case be responsible or liable for these costs, regardless of the outcome of the bidding process.
- 2.3.2 The Bidder shall not be entitled to hold any claim against Prasar Bharati for non-compliance due to lack of any kind of pre-requisite information as it is the sole responsibility of the Bidder to obtain all the necessary information with regard to site, surrounding, working conditions, weather etc. on its own before submission of the Bid.
- 2.4 For more information regarding submission of Bid in the e- Procurement portal, Bidders may refer the help manuals and, General FAQs (Frequently Answered Questions) about the e-Tendering, which has been provided in the Portal.**

2.5 LIST OF DOCUMENTS (to be uploaded with tender):

2.5.1 PART-I: "TECHNO-COMMERCIAL / UNPRICED BID"

- 2.5.1.1 'Covering Letter' on Bidder's 'Letter head' clearly specifying the enclosed contents.
- 2.5.1.2 'Bidder's General Information', as per 'Form-1' along with Copy of 'PAN' and 'GST' registration and 'Bid Form', as per 'Form-2'
- 2.5.1.3 Scanned copy of EMD along with Form-4 or Declaration of MSME EMD Exemption, letter along with NSIC Certificate for MSME in the concerned category of the Tendered items.
- 2.5.1.4 Copies of documents required as per 'Form -5' and as mentioned elsewhere in the Tender Document
- 2.5.1.5 Nil deviation Certificate as per 'Form-6'.
- 2.5.1.6 Declaration regarding Holiday/Banning, in 'Form-8
- 2.5.1.7 Letter of Authority' on the Letter Head, as per 'Form-9
- 2.5.1.8 AIR/DD's Technical Specifications duly signed on each page.
- 2.5.1.9 Original Equipment's Manufacturers (OEM) Authorization for Equipment quoted.
- 2.5.1.10 Letter of authority to sign and upload bid documents.
- 2.5.1.11 Undertaking regarding Fall Clause as mentioned in Para 3.22.3
- 2.5.1.12 Enclosures as per Commercial requirement.
- 2.5.1.13 Enclosures as per Technical requirement.
- 2.5.1.14 Self-Certificate for Local Content as per Form-11.
- 2.5.1.15 Integrity Pact as per Form 12 (if applicable)(for estimated contract value of Rs. Two Crores or more) duly filled and signed.
- 2.5.1.16 Certificates as mentioned on Para 2.33.8 along with evidence of valid registration by the Competent Authority to be attached, if applicable.
- 2.5.1.17 Any other information/details required as per Tender Document

2.5.2 PART-II: Price Bid

(As per the Tender, the reference of the Schedule of Rate may be specified here)

- 2.6 All GTC attached with the "Invitation to Tender" are sacrosanct for considering any offer as a complete offer. It is therefore important that all documents duly completed and signed are returned with the Bidder's offer.
- 2.7 Prasar Bharati shall have all right to ignore any offer which fails to comply with the above instructions.
- 2.8 The Bid shall be submitted online not later than the time specified in the tender document, or on the notified date of closing of the tender. Offers sent through any mode other than uploading on e-procurement portal of Prasar Bharati will not be accepted.
- 2.9 Any change in quotation after opening of tender will not be considered. Bidders must ensure that all the documents / files uploaded on e- procurement portal are in order and legible in all respect. Prasar Bharati will not be responsible for any documents / files illegible or corrupted due to any disruption/ technical snag of internet service being used by the bidders.
- 2.10 **VAGUE AND INDEFINITE EXPRESSION**
Tenders qualified by vague and indefinite expressions such as "subject to immediate acceptance" or "subject to prior sale" etc. will not be considered. Unconditional Bids shall only be considered.

2.10.1 VALIDITY PERIOD OF OFFER

- 2.10.1.1** The Tender shall be valid for acceptance for the period as indicated in the "Invitation to Bid" (hereinafter referred to as validity period) and shall not be withdrawn on or after the opening of tenders till the expiration of the validity period or any extension thereof.
- 2.10.1.2** The offers of these Bidders who have not kept the validity open till the period stipulated in the tender will be treated as unresponsive and will be ignored without making any back reference.
- 2.10.1.3** The Bidder will undertake not to vary/modify the tender during the validity period or any extension thereof.

2.11 OPENING OF TENDERS

- 2.11.1** The tender will be opened online on the e-tendering portal of Prasarbharati <https://prasarbharati.eproc.in> at the time specified in the tender document, on the date of opening indicated in the "Invitation to Bid.", in the presence of bidder's authorized representatives who choose to attend.
- 2.11.2** In case of unscheduled holiday on the closing/opening day of tender, the next working day will be treated as scheduled prescribed day of closing/opening of tender; the time notified remains the same.

2.11.3 PRICES FOR BIDDERS

Bidders are to quote in INR only on FOR Destination basis.

2.12 VARIATION OF QUANTITIES (Ref: PARA 7.5.3 MFP 2017)

At the time of awarding the contract, Prasar Bharati shall have right to re-judge the quantity to be procured based on the current data, since the ground situation may have very well changed. The tendered quantity can be increased or decreased by 25 (Twenty-Five) per cent for ordering, if so warranted.

2.13 OPTION CLAUSE:

Prasar Bharati reserves the right to increase/decrease the ordered quantity by up to 25 (Twenty-Five) per cent at any time, till final delivery date (or the extended delivery date of the contract), by giving reasonable notice even though the quantity ordered initially has been supplied in full before the last date of the delivery period (or the extended delivery period)

2.14 TAX LIABILITY

- 2.14.1** The Bidder shall be entirely responsible for all taxes, duties, license fees, etc., incurred till its final manufacture/ production upto the point of delivery. Further instruction, if any, shall be as provided in the Schedule of Requirements.
- 2.14.2** Payment of CGST/SGST/UTGST/IGST and all other applicable taxes (on ultimate products and Services) and custom duty, as applicable on the closing date of tender will be to supplier's /contractor's account. In the case of "Two Bid" system where revised price bids are permitted after technical discussions payment of these charges as applicable on closing day of revised price bids, will be to supplier's /contractor's account. Any increase over the rate existing on the last date of submission of Bid shall be reimbursed by the organization on production of documentary evidence in support of payment actually made to the concerned authorities. Similarly, if there is any decrease in such duties, taxes and levies the same shall become recoverable from the contractor. The details of such duties, taxes and other levies along with rates shall be declared by the bidder.
- 2.14.3** The bidder(s) will indicate in their bid the amount with exact rate of customs duty and the

applicable item of custom tariff under which it is covered. Similarly, the amount of CGST/SGST/UTGST/IGST and all other applicable taxes on ultimate furnished product with HSN/SAC code, as applicable at tendering stage will be shown separately in the bid. In case the above information subsequently proves wrong incorrect or misleading

- (a) This Organization will have no liability to reimburse the excess in the difference in rates of the item under which the duty/ tax assessed finally
- (b) This Organization will have the right to recover the difference in case the rate of duty/ tax finally assessed is on the lower side.

2.14.4 Contractor shall ensure timely submission of invoice(s) as per rules/ regulations of GST with all required supporting document(s) to enable Prasar Bharati to avail Input Tax Credit (ITC). Further, returns and details required to be filed under GST laws & rules should be timely filed by supplier with requisite details.

2.14.5 If input tax credit (ITC) with respect to GST (CGST & SGST/UTGST or IGST) which normally shall be available to Prasar Bharati, is not available for any reason, which is not attributable to Prasar Bharati, then Prasar Bharati shall not be obliged or liable to pay or reimburse GST (CGST & SGST/UTGST or IGST) charged in the invoice(s) and shall be entitled to/ deduct/ setoff/ recover the such GST (CGST & SGST/UTGST or IGST) thereupon together with all penalties and interest if any, against any amounts paid or payable by Prasar Bharati to Supplier/ Vendor.

2.14.6 The rates and prices quoted by the Bidder shall be fixed for the duration of the contract and shall not be subject to variations on any account except to the extent variations allowed as per the conditions of the contract of the bidding document.

2.15 **TRADE/ VOLUME DISCOUNT**

Bidders will not indicate a separate discount. Discount, if any, should be merged in the rates against the quoted items(s). Discount of any type indicated separately will not be taken into account for evaluation purposes.

2.16 **ESSENTIAL ELIGIBILITY CRITERIA FOR TENDERER**

2.16.1 Bids should preferably be from original manufacturers, however, Bids from sole selling agents/authorized distributors/authorized dealers can also be considered provided such bids are accompanied with necessary supporting documents/authority letter from concerned original manufacturer who authorized them to market their product, provided further, such an authority letter is valid at the time of bidding. Required Warranty Cover of the manufacturer for the product will be provided by such a supplier through OEM. The Bidder shall not be under a declaration of ineligibility by Purchaser for Corrupt/ Fraudulent/ Collusive/ Coercive practices,

2.16.2 The Bidder is not put on 'Holiday' by Prasar Bharati or any of the Government departments, Public Sector or banned/blacklisted by Government department/ Public Sector on the due date of submission of bid. If the Bid submitted by such Bidder shall not be considered for opening/ evaluation/ award and in case of Manual Tendering, such Bid along with the Bid Security, if any, will be returned immediately to the Bidder.

2.16.3 **Bidder should meet experience and other criteria, if any as specified in Appendix-D and basic guidelines/ eligibility criteria as under:**

2.16.3(a) Company Existence : Company should be registered under Companies Act,1956 or Companies Act 2013 or a Partnership firm /LLP registered in India under Partnership Act1932/2008 as amended

and should have been in operations in India in the last 3 Years

2.16.3(b) Annual Turnover/Net Worth(CA certified documents) (Except the Covid FYs 2020-21 and 2021-22)

Average Annual turn over of 200% of estimated cost of the project in the last 03 financial years
OR

Cumulative Turnover of 600% of estimated cost of the project in the last 03 financial years
OR

Average Annual Net Worth of minimum of 50% of estimated cost of the project in the last 03 financial years
OR

Cumulative Networth of minimum of 150% of estimated cost of the project in the last 03 financial years

2.16.3(c) Positive NetWorth/ Profitability : Profitability/ positive net worth in the last financial year

Solvent entity (CA certified document)

2.16.3(d) Work Experience (Self-certified with relevant documents): *One* Similar work of minimum value of 80% of estimated cost of the project

OR

Two Similar works of minimum value of 60% of the estimated cost of project

OR

Three Similar works of minimum value of 40% of the estimated cost of project

Note: Similar works will be defined based on scope of the work. Similar works may be executed with any Central and State Government agency, PSUs, Private organizations.

2.16.3(e) Non-Backlisting Certificate : The bidder should not have been blacklisted /debarred by any Governmental / Non-Governmental Organization in India as on bid submission date.

2.16.3(f) Certification: The Bidder should have valid ISO 9001:2008/ ISO 9001:2015/ ISO27001 (relevant certification based on type of work) valid as on bid submission

2.16.3(g) GFR Restrictions/ Norms: Bidder complies with restrictions on procurement under Rule 144(xi) vide order no: 06/18/2019-PPD dated 23rd July 2020 inserting in Rule 144(xi) GFR 2017

2.16.3(h) Preferential Market Access (PMA) Bidder should comply with Preferential market Access (PMA) order 2017, guidelines notified by DPIIT and DoT with all its clarifications/amendments, if applicable.

However nothing in this shall prevent Prasara Bharati from engaging new and emerging Technology start-ups in the areas of R&D and innovation from time to time. Relaxation for Start-ups as per Government guidelines would apply (GFR Rule 173(1) relaxes DPIIT recognized Start-ups from prior experience and prior turn over requirements subject to meeting of quality and technical specifications and making suitable provisions in the Bid Document).

2.17 **PURCHASE PREFERENCE**

2.17.1 Purchase preference to Central Government Public Sector Undertaking, Micro, Small & Medium Enterprises (MSMEs) and Domestically Manufactured Electronic Products (DMEP) shall be allowed as per Government instructions in vogue, as applicable necessary supporting documents to be furnished by the bidder.

2.17.2 Public Procurement (Preference to Make in India) Order No. P-45021/2/2017-B.E-II dated

15.06.2017 of Government of India, Ministry of Commerce and Industry, Department of Industrial Policy and Promotion and its amendments shall be applicable. Purchase preference for the domestic manufacturer, the methodology of its implementation, value addition to be achieved by domestic manufacturers, self-certification, and modalities for compliance and monitoring shall be as per the Para 4.5.

2.18 SCOPE OF SUPPLY OF EQUIPMENT/SITC/SETC/DSETC:

The delivery of the stores/execution of SITC/SETC/DSETC is required as stated in “Invitation to Bid” on terms specified in the description of Stores/SITC/SETC/DSETC and Technical Specifications mentioned at Appendix-D , subjected to the terms “General Terms and Conditions” at Appendix-B.

2.19 CONSIDERATION OF OFFER IN FULL OR IN PART

This organization may reject/accept or prefer any tender without having to assign any reason whatsoever. This organization also reserves to itself the right to accept any tender in part or split the order between two or more bidders.

2.20 SPECIFICATIONS

2.20.1 If this organization finds that materials supplied/works carried out are not of correct quality, quantity and are not according to required specifications or are not satisfactory owing to any reason of which the organization will be the sole judge, the organization will be entitled to cancel the contract for supply of stores/SITC/SETC/DSETC and meet its requirements of stores/SITC/SETC/DSETC from the open market at the risk and cost of the supplier/contractor, reserving always to itself the right to forfeit the security deposit placed by the supplier/contractor for fulfillment of the contract.

2.21 BID SECURITY/ EARNEST MONEY/SECURITY DEPOSIT/PERFORMANCE BOND:

2.21.1 **Earnest Money/Bid Bond :**The bidders must submit Earnest Money/ Bid Bond on or before the last date & time of submission of bid in the form of FDR, TDR, ,Bank Draft or Bank Guarantee of any Scheduled Commercial Bank in India in case of Indian supplier or Bank Guarantee/Demand Draft in equivalent Indian currency from a Scheduled Commercial Bank in favour of **PRASAR BHARATI CORPORATION ADDL DIRECTOR GENERAL payable at Chennai** or in lieu thereof bid bond in the enclosed Proforma at Form - 4 from a Scheduled Indian Commercial Banks for the amount specified in Para 1.2.7 of “Invitation to Bid”. In case of Bank Guarantee obtained from the foreign Bank, it should be guaranteed by a Scheduled Indian Commercial Bank and must be governed by Indian Laws subject to jurisdiction of the court of New Delhi. The bid bond should initially be valid up to 45 days beyond the period of Bid validity (except for the Demand draft whose validity should be 90 days).

2.21.2 Offers without Earnest Money/Bid Security will be ignored. Offers with Earnest Money /Bid Security deposited of shorter validity will also be ignored.

2.21.3 Bidders exempted from EMD are to submit required documents.

2.21.4 The earnest money/bid bond of unsuccessful bidders will be returned on finalization or after the award of the Tender to the Lowest Bidder(L1), and the earnest money/bid bond of the successful bidder will be returned on receipt of requisite security deposit/Performance Bond.

2.21.5 **FORFEITURE OF EMD:** The earnest money/Bid bond deposited by the Bidder shall be forfeited by this Organization in the following events:

2.21.5.1 If tender is withdrawn during the validity period or any extension thereof;

- 2.21.5.2 If Bid is amended or modified unsolicited, during the validity period or any extension thereof;
- 2.21.5.3 If a Bidder, whose tender has been accepted, fails to furnish Security deposit, performance bank guarantee within 30 (Thirty) days of the receipt of order/ advance order/ letter of intent;
- 2.21.5.4 In case of tenders in which only a single bidder qualifies or in cases of procurement on PAC basis, if the Bidder decides at any stage not to participate further in the tender but in spite of withdrawing on his own, he deliberately delays the tendering process to let the validity period expire;
- 2.21.5.5 If, the bidder is not earnest about their bid, and withdraws it before the completion of Technical Evaluation against the accepted specification, at the time of bidding and before the validity period or any extension thereof;

2.22 SECURITY DEPOSIT/PERFORMANCE BOND.

The successful bidder, within 30 (Thirty) days of the receipt of order/advance order/letter of intent, will be required to send Security Deposit in the form of Account Payee Demand draft, from any scheduled bank(s), Fixed Deposit Receipt (FDR), Bankers Cheque or Bank Guarantee from an Indian scheduled Commercial Bank favour of **PRASAR BHARATI CORPORATION ADDL DIRECTOR GENERAL payable at Chennai** in lieu thereof Performance Security/Bank Guarantee for the amount as indicated in the Para 1.10 of "Invitation to Bid".

2.23 NAME OF MANUFACTURER AND CERTIFICATE OF ORIGIN

The name of the manufacturer should be clearly mentioned in the offer. The Bidder shall have to furnish information of country of origin of each offered item.

2.24 PAYMENT TERMS

2.24.1 Schedule of Payments: (Kindly refer: Payment terms in tender specification Appendix D)

2.24.1.1 For Supply Contracts: N.A

~~The supplier will submit bill for 90% of the basic amount and 100% of the GST applicable on the total basic amount along with a copy of Inspection Notes and provisional Consignees Receipt certificate to concerned Zonal Offices who will, after verifying bills, pass on to the respective PAOs for making payment. The bill for the balance 10% basic amount shall be submitted by the suppliers after receipt of final consignees receipt certificates.~~

2.24.1.2 For SITC/SETC/DSETC Contracts: (Kindly refer: Payment terms in tender specification Appendix D)

~~The supplier will submit bill for 100% on successful completion of the work.the material/equipment basic cost and 100% of the GST applicable on the total basic amount of material/equipment supplied along with a copy of Inspection Notes and Provisional consignees Receipt certificate to concerned Zonal Offices who will, after verifying bills, pass on to the respective PAOs for making payment. The bill for balance 20% of material/equipment cost along with 100% installation/Erection, Testing & commissioning charges, if any, shall be submitted by the suppliers after receipt of final consignees receipt certificates and satisfactory installation/Erection, Testing& commissioning certificate whichever required.~~

(Note: GST shall be paid only once against an order. Supplier will submit invoice accordingly.)

2.24.1.3 Ordinarily, Prasar Bharati (PB) would disburse payments for services rendered or supplies made, only after the services have been rendered or supplies made. However, in case of supply of services and turnkey projects and maintenance contracts, advance payment might be considered only on request of the contractor/supplier in cases where it is considered absolutely necessary and justification accepted by Prasar Bharati (PB).

2.24.1.4 Advance payment will only be released after submission of an unconditional Bank Guarantee by the contractor/supplier. The Bank Guarantee shall be from a Commercial bank acceptable to the Procuring Entity in amounts equal to 110% (one hundred ten percent) of the amount of the advance payment being requested and subsequent verification of the Bank Guarantee. The Bank Guarantee shall remain effective until the advance payment has been adjusted. The amount of advance payment against contract for supply of stores shall be restricted to:

1. Thirty per cent of the contract value (without taxes) to private firms;
2. Forty per cent of the contract value (without taxes) to a state or central Government agency or PSU;
3. In case of maintenance contract, the amount shall not exceed the amount payable for six months under the contract.

2.24.1.5 An assurance in the shape of indemnity bond/insurance shall be submitted by the vendor in every case where advance payment is to be made. The goods supplied under the contract, shall be fully insured by the contractor/supplier in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the contract. The amount to be covered under insurance should be sufficient to take care of the overall expenditure to be incurred by the procuring entity for receiving the goods at the destination.

2.24.1.6 The advance paid shall be progressively adjusted against bills within the schedule of payments along with the applicable taxes.

2.24.1.7 Normally, interest shall not be charged on the advance payment. However, in case of breach of contract by the supplier/contractor and thereby termination of contract by Prasar Bharati, the Advance shall be deemed an interest-bearing advance at the prevailing rate (MIBID - Mumbai Interbank Bid Rate) on the date of such advance payment.

2.24.2 The payment shall be made on receipt of the goods by the consignee and upon submission of following documents.

- a. The supplier's invoice showing contract number, description of goods, quantity, unit price and the total amount;
- b. Delivery note;
- c. Packing list identifying contents of each package;
- d. Certificate of origin.
- e. Provision receipt certificate for the corresponding delivery, issued by the consignee indicating acceptance of materials at site in good condition;
- f. Any other document(s) and/or modification of above documents specified in the Schedule of Requirement and the contract.

2.25 UNSOLICITED POST TENDER MODIFICATION

2.25.1 In case certain clarifications are sought by this Organization after opening of tenders, then

the reply of the bidder should be restricted to the clarifications sought.

2.25.2 Any bidder who modifies his bid(including a modification which has the effect of altering the value of his offer) after the closing date without specific reference by this Organization shall render the bid liable to be ignored and rejected without notice and without further reference to the bidder.

2.25.3 Canvassing in any form by the bidders shall also render the bid liable to be ignored and rejected without notice and without further reference to the bidder.

2.26 CLARIFICATION IN RESPECT OF INCOMPLETE OFFERS

2.26.1 This Organization has to finalize its purchase within a limited time schedule. Therefore, it may not be feasible in all cases for this Organization to seek clarifications in respect of incomplete offers. Prospective bidders are advised to ensure that their bids are complete in all respects and conform to our terms and conditions and Bid Evaluation Criteria of the tender. Bids not complying with this Organization's requirements may be rejected without seeking any clarifications. However during evaluation and comparison of bids, Prasar Bharati at its discretion, may ask the bidder for clarifications on the bid. The request for clarification shall be given in writing by registered email Id or through e-procurement Portal, asking the Bidder to respond by a specified date, and also mentioning therein that, if the Bidder does not comply or respond by the date, his Bid will be liable to be rejected. Depending on the outcome, such tenders will be ignored or considered further. No change in prices or substance of the bid shall be sought, offered or permitted. No post bid clarification at the initiative of the bidder shall be entertained.

2.26.2 The Bidder shall quote the prices in 'figures' & words. There should not be any discrepancy between the prices indicated in figures and the price indicated in words. In case of any discrepancy, the same shall be dealt as follows:

2.26.2.1 When there is a difference between the rates in figures and words, the rate which corresponds to the amount worked out by the Bidder (by multiplying the quantity and rate) shall be taken as correct.

2.26.2.2 When the rate quoted by the Bidder in figures and words tallies but the amount is incorrect, the rate quoted by the contractor shall be taken as correct and not the amount and the amount corrected.

2.26.2.3 When it is not possible to ascertain the correct rate, in the manner prescribed above, the rate as quoted in words shall be adopted and the amount worked

2.27 AFTER SALES SERVICE AND TRAINING- (as applicable as per Technical Specification)

2.28 REPLACEMENT/ RECTIFICATION

In the event the stores supplied or SITC/SETC/DSETC carried out against the contract are found to be defective, the supplier/contractor will have to take back the defective materials at his own cost and replace/rectify the defects of the Stores/SITC/SETC/DSETC free of charge without loss of time. The supplier will not be entitled to dispose of the store/equipment/material given for replacement/rectification without the prior permission of this Organization. All charges concerned with the rectification including freight charges will be borne by the supplier/contractor.

2.29 EVALUATION/ SCRUTINY OF BIDS.

In the evaluation of the techno-commercial bid, conformity of the eligibility/qualification, technical and commercial conditions of the offer to those in the bid document is ascertained. Technical requirement, incorporated in the Appendix-D of tender documents will also be considered in the manner indicated therein. Evaluation will be based only on the conditions

included in the tender document.

2.30 SIGNING OF AGREEMENT

- 2.30.1 Prasar Bharati will award the Contract to the successful Bidder, who, within 'fifteen [15] days' of receipt of the same, shall sign and return the acknowledged copy to Prasar Bharati.
- 2.30.2 The successful Bidder/Contractor shall be required to execute an 'Agreement' in a Performa on a 'non-judicial stamp paper' of appropriate value [cost of the 'stamp-paper' shall be borne by the successful Bidder/Contractor] and of 'state' specified only, within 'fifteen [15] days' of receipt of the "Letter of Acceptance [LOA]" of the Tender by the successful Bidder/Contractor failure on the part of the successful Bidder/Contractor to sign the 'Agreement' within the above stipulated period, shall constitute sufficient grounds for appropriate action per tender provisions.
- 2.30.3 If the Bidder or any employee of the Bidder or any person acting on behalf of the Bidder, either directly or indirectly, is a relative of any of the employee of Prasar Bharati, or alternatively, if any relative of an employee of Prasar Bharati has financial interest/stake in the Bidder's firm, the same shall be disclosed by the Bidder at the time of filing of tender. The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.
- 2.30.4 The Bidder shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of Prasar Bharati

2.31 EMPLOYMENT BY FIRMS TO OFFICIALS OF THIS ORGANISATION.

Firms/companies who have or had business relations with the Organization are advised not to employ serving employees of this Organization without its prior permission or within the initial one-year period after the retirement/resignation/severance from the service without specific permission of this Organization. This Organization may decide not to deal with such firms who failed to comply with the above advice.

2.32 CANCELLATION /RESCISSION:

The Bidder shall be liable to pay compensation for any loss or damage to Prasar Bharati resulting from any cancellation/rescission due to the reasons attributable to the Bidder and the Prasar Bharati shall be entitled to deduct the amount so payable from the amount due to the Bidder.

2.33 FOR THE BIDDER FROM A COUNTRY WHICH SHARES A LAND BORDER WITH INDIA

- 2.33.1 Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. The Competent Authority for the purpose of registration under this Order shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).
- 2.33.2 "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

- 2.33.3 "Bidder from a country which shares a land border with India" for the purpose of this Order means; -
- 2.33.3.1 An entity incorporated, established or registered in such a country; or
 - 2.33.3.2 A subsidiary of an entity incorporated, established or registered in such a country; or
 - 2.33.3.3 An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - 2.33.3.4 An entity whose beneficial owner is situated in such a country; or
 - 2.33.3.5 An Indian (or other) agent of such an entity; or
 - 2.33.3.6 A natural person who is a citizen of such a country; or
 - 2.33.3.7 A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
 - 2.33.4 The beneficial owner for the purpose of Para 2.33.3 above will be as under:
 - 2.33.4.1 In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means. Explanation—
 - 2.33.4.1.1 "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company;
 - 2.33.4.1.2 "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
 - 2.33.4.1.3 In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
 - 2.33.4.1.4 In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
 - 2.33.4.1.5 Where no natural person is identified under Para 2.33.4.1 or Para 2.33.4.2 or Para 2.33.4.3 above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
 - 2.33.5 In case of a trusty the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
 - 2.33.6 An Agent is a person employed to do any act for another, or to represent another in dealings with third person.
 - 2.33.7 The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority(In case of Tenders for Works contracts, including Turnkey contracts)
 - 2.33.8 The following Certificate shall be submitted by the Bidder appending to the Technical Bid

Certificate to be filled by the Bidder:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder

fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

Certificate for Tenders for Works involving possibility of sub-contracting:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; / certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered, [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

2.34 Make in India Order

Orders issued by the Government of India regarding eligibility to participate and for purchase preference to "Local Suppliers" to encourage 'Make in India' and promote manufacturing and production of goods and services in India shall apply to this procurement, as detailed below.

2.34.1 Categories of Local Suppliers

Bidders/Contractors are divided into three categories based on Local Content. Local content in the context of this policy is the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

2.34.1.1 'Class-I local Supplier' with local content equal to or more than that prescribed in Tender information summary (TIS) or 50% if not prescribed.

2.34.1.2 'Class-II local Supplier' with local content equal to or more than that prescribed in TIS or 20% if not prescribed, but less than that applicable for Class-I local Supplier.

2.34.1.3 'Non-Local Supplier' with local content less than that applicable for Class-II local supplier, in sub-clause above.

2.34.2 Eligibility Restrictions based on Reciprocity.

If so stipulated in the Tender Document, entities from such countries identified as not allowing Indian companies to participate in their Government procurement shall not be allowed to participate on a reciprocal basis in this tender. The term 'entity' of a country shall have the same meaning as under the FDI Policy of DPIIT as amended from time to time.

2.34.3 Eligibility to participate

- i. **Minimum local content for eligibility to participate:** Only bidders meeting the minimum prescribed local content for the product shall be eligible to participate subject to the following conditions. This threshold shall be declared in TIS and/ or Section VI: Schedule of Requirements
- ii. **Classes of Local Suppliers eligible to Participate:** Based on the Make in India Policy, classes of local/ non-local Suppliers eligible to participate in the tender shall be declared in TIS/ AITB/ Schedule of Requirements. If not so declared, only Class-I and Class-II local Suppliers shall be eligible to participate and not non-local Suppliers.

2.34.4 Thresholds

Local content for eligibility for Class-I; Class-II local Suppliers and Non-local Suppliers shall be 50% and above; 20% and above but less than 50%; and less than 20%, respectively. **Minimum local content for eligibility to participate more than 20%**, The margin of purchase preference shall be 20%.

2.34.5 Purchase preference to Class-I local Suppliers

2.34.5.1 For goods and works where the Goods are divisible by nature: NA

Among all qualified bids, the lowest bid shall be termed as L-1. If L-1 is 'Class-I local Supplier', the contract for full quantity shall be awarded to L-1. If the L-1 bid is not a 'Class-I local Supplier', 50% of the order quantity shall be awarded to L-1. After that, the lowest bidder among the 'Class-I local Supplier' whose quoted price falls within the margin of purchase preference shall be invited to match the L-1 price for the remaining 50% quantity, and a contract for that quantity shall be awarded him, subject to matching the L-1 price. In case such lowest eligible 'Class-I local Supplier' fails to match the L-1 price or accepts less than the offered quantity, the next higher 'Class-I local Supplier' within the margin of purchase preference shall be invited to match the L-1 price for the remaining quantity and so on, and the contract shall be awarded accordingly. If some quantity is still left uncovered on Class-I local Suppliers, such balance quantity shall also be ordered on the L-1 bidder.

2.34.5.2 For goods and works where the Goods are not divisible, and in the procurement of services where the bid is evaluated on price alone:

Among all qualified bids, the lowest bid shall be termed as L-1. If L-1 is 'Class-I local Supplier's' the contract shall be awarded to L-1. If L-1 is not 'Class-I local Supplier', the lowest bidder among the 'Class-I local Supplier' shall be invited to match the L-1 price subject to Class-I local Supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local Supplier' subject to matching the L-1 price. If such lowest eligible 'Class-I local Supplier' fails to match the L-1 price, the 'Class-I local Supplier' with the next higher and so on, bid within the margin of purchase preference shall be invited to match the L-1 price, and the contract shall be awarded accordingly. If none of the 'Class-I local Supplier' within the margin of purchase preference matches the L-1 price, the contract shall be awarded to the L-1 bidder.

2.34.5.3 Where parallel contracts are to be awarded to multiple bidders: In Bids where parallel contracts are to be awarded to multiple bidders subject to matching of L-1 rates or otherwise, the 'Class-I local Supplier' shall get purchase preference over 'Class-II local Supplier' as well as 'Non-local Supplier', as per following procedure:

If there is sufficient local capacity and competition for the item to be procured, as notified by the nodal Ministry, only Class I local Suppliers shall be eligible to bid. As such, the multiple Contractors, who would be awarded the contract, should be all and only 'Class I Local Suppliers'. In Bids, other than those mentioned above, 'Class II local Suppliers' or both 'Class II local Suppliers' and 'Nonlocal Suppliers' may also participate in the tender process along with 'Class I Local Suppliers'. If 'Class I Local Suppliers' qualify for the contract award for at least 50% of the tendered quantity in tender, the contract shall be awarded to all the qualified bidders as per award criteria stipulated in the Tender Documents. However, in case 'Class I Local Suppliers' do not qualify for the award of contract for at least 50% of the tendered quantity as per award criteria, purchase preference should be given to the 'Class I local Supplier' over 'Class II local Suppliers'/'Non-local Suppliers' provided that their quoted rate falls within the margin of purchase preference of the highest bid considered for award of contract. To ensure that the 'Class I Local Suppliers' taken in totality are considered for award of contract for at least 50% of the tendered quantity, first purchase preference has to be given to the lowest among such eligible 'Class-I local Suppliers', subject to its meeting the prescribed criteria for the award of contract as also the

constraint of the maximum quantity that can be sourced from any single Contractor. If the lowest among such 'Class-I local Suppliers' does not qualify for purchase preference because of aforesaid constraints or does not accept the offered quantity, an opportunity shall be given to next higher among such 'Class-I local Supplier', and so on.

Verification of local content and violations:

- 2.34.5.4 The 'Class-I local Supplier'/ 'Class-II local Supplier' at the time of tender, bidding, or solicitation shall be required to indicate the percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local Supplier'/ 'Class-II local Supplier', as the case may be.
- 2.34.5.5 In cases of procurement for a tender value above Rs. 10 crores, the 'Class-I local Supplier'/ 'Class-II local Supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or a practicing cost accountant or practicing chartered accountant (in respect of Contractors other than companies) giving the percentage of local content.
- 2.34.5.6 Bids with false declarations regarding Local contents shall be rejected as responsive, in addition to punitive actions under the MII orders and for violating the Code of Integrity as per the Tender Document.

Manufacture under license/ technology collaboration agreements with phased indigenization

- 2.34.5.7 If so, declared in TIS and/ or AITB, foreign companies shall enter into a joint venture with an Indian company to participate.
- 2.34.5.8 The Procuring Entity reserves its right, but without being under any obligation to do so, to grant exemption from meeting the stipulated local content to Bidders manufacturing indigenously a product developed abroad under a license from a foreign manufacturer (who holds intellectual property rights) under a technology collaboration agreement/ transfer of technology agreement with a precise phasing of increase in local content. Bidder must obtain such an exemption letter and submit it along with his bid to avail such an exemption.

Information to be provided by Bidders regarding Make in India policy

Bidder shall provide required self-declaration as detailed in Form 11 – Eligibility Declarations:

- 2.34.5.9 Self-declaration of their local content (and required certificate, in case of procurements above Rs 10 Crores) and their status as Class-I/ Class-II/ Non-local Supplier and their eligibility to participate as per this clause.
- 2.34.5.10 If the Tender Document indicates countries identified as not allowing Indian companies to participate in their Government procurement, then a declaration that they are not an 'Entity' of such countries (as per criteria of the FDI Policy of DPIIT as amended from time to time) and are therefore eligible to participate in this tender.
- 2.34.5.11. If a Bidder is claiming exemption (as obtained from relevant authorities) from meeting the stipulated local content on account of manufacturing the product in India under a license from a foreign manufacturer with the precise phasing of increase in local content, he must provide proof thereof.

Support/ Preferential Treatment to Micro & Small Enterprises (MSEs)

Policies of the Government to support Micro and Small Industries (MSEs, registered as per the following sub-clause) in comparison to non-MSE enterprises shall apply to this procurement.

2.34.6 Registration of MSEs

2.34.6.1.1 MSEs interested in availing such benefits must enclose in Form 11 with their offer the Udhyam Registration Certificate with the Udhyam Registration Number as proof of their being MSE registered on the Udhyam Registration Portal. The certificate shall be of latest but before the deadline for the bid submission.

2.34.6.1.2 MSEs shall be treated as owned by SC/ ST or women entrepreneurs:

The proprietor(s) shall be SC/ ST or women In proprietary MSEs

At least 51% shares shall be held by the SC/ ST or women partners in a partnership MSEs.

At least a 51% share shall be held by SC/ ST or women promoters in Private Limited Companies MSEs.

2.34.7 Support to MSEs

a) Tender sets shall be provided free of cost to MSEs.

b) MSEs shall be exempted from payment of Earnest Money. (as per ITB-clause 9.4 below, they shall be required only to submit Bid Security Declaration)

2.34.7.1 Reservation of specific items for procurement

If so stipulated in Tender Information Summary (TIS/BDS, Appendix to NIT), this procurement is reserved as per the Public Procurement Policy for the Micro and Small Enterprises Order, 2012, for exclusive purchase from Micro and Small Enterprises (MSEs) registered with agencies, as mentioned in clause below. In such a case, only such MSEs shall be eligible to submit a bid and be considered.

2.34.8 Purchase Preference to MSEs

The Procuring Entity reserves its option to give purchase preference to MSEs compared to the non-MSE enterprises as per policies of the Government from time to time. This preference shall only apply to products produced and services rendered by Micro and Small Enterprises. If an MSE bidder quotes a price within the band of the lowest (L-1) +15 percent in a situation where the L-1 price is quoted by someone other than an MSE, the MSE bidders are eligible for being awarded up to 25 percent of the total quantity being procured if they agree to match the L-1 price. In case of more than one such eligible MSE, this 25 percent quantity shall be distributed proportionately among these bidders.

2.34.9 Support to Start-up Enterprises

Definition of Start-up Enterprises

2.34.9.1 As defined by DPIIT, an entity shall be considered as a 'Start-up':

Upto a period of ten years from the date of incorporation/ registration, if it is incorporated as a private limited company (as defined in the Companies Act, 2013) or registered as a partnership firm (registered under section 59 of the Partnership Act, 1932) or a limited liability partnership (under the Limited Liability Partnership Act, 2008) in India, and Turnover of the entity for any of the financial years since incorporation/ registration has not exceeded one hundred crore rupees, and The entity works towards innovation, development or improvement of products or processes or services or a scalable business model with a high potential for employment generation or wealth creation.

2.34.9.2 Provided that an entity formed by splitting up or reconstructing an existing business shall not be considered a 'Start-up'.

2.34.9.3 A Start-up so identified under the above definition shall be required to obtain and submit along

with his bid a certificate of an eligible Start-up from the inter-Ministerial Board of Certification to obtain support.

2.34.10 Support to Start-ups

The Government of India has ordered the following support to Start-ups (as defined by the Department of Promotion of Industrial and Internal Trade - DPIIT).

2.34.10.1 Exemption from submission of Bid Security: Such Start-ups shall be exempted from payment of Earnest Money. (as per ITB-clause ____ below, they shall be required only to submit Bid Security Declaration)

2. Relaxation in Prior Turnover and Experience: The Procuring Entity reserves its right to relax the condition of prior turnover and prior experience for start-up enterprises subject to meeting of quality & technical specifications. The decision of the Procuring Entity in this regard shall be final.

2.34.11 The Goods, Eligible Goods and Basis of Evaluation

Eligible Goods –Origin and Minimum Local Content

Unless otherwise stipulated in the Tender Document, all ‘Goods’ and ‘incidental Works/ Service’ to be supplied under the contract must conform to i) restrictions on certain countries with land-borders with India (ITB-clause ____; ii) minimum local content (Make in India Policy – ITB-clause ____). If Bidder avails benefits under any preferential policy as Class-I Local Supplier or as MSE or Start-up enterprise, the Goods must not circumvent the provisions relating to such benefits.

2.34.12 Basis of Evaluation for Schedules/ packages

- a. Unless otherwise stipulated in the TIS/ AITB, if there is more than one schedule/ package in Section VI: Schedule of Requirements, evaluation of financial ranking of bids shall be done separately for each schedule, and Bidder has the option to submit its quotation for any one or more schedules/ packages and, also, to offer special discount for combined schedules. However, Bidder shall quote for the complete Goods as stipulated in a schedule quoted.
- b. Unless otherwise stipulated in the TIS/ AITB, if there is only a list of items without grouping into schedules, evaluation of financial ranking of bids shall be done for each item separately, and Bidder has the option to submit its quotation for any one or more items and, also, to offer special discount for combined items. However, Bidder shall quote for all the destinations included in an item quoted.

2.34.13 Unless otherwise stipulated in the TIS/ AITB, if there is only one item in the Goods with several destinations, evaluation of financial ranking of bids shall be done separately for each destination included in that item separately, and Bidder has the option to submit its quotation for any one or more destinations and, also, to offer special discounts for all destinations.

BIDDER'S GENERAL INFORMATION

To,

THE ADDL.DIRECTOR GENERAL (E) (SZ)
 ALL INDIA RADIO & DOORDARSHAN
 SWAMI SIVANANDA SALAI, CHENNAI - 5

TENDER NO :J-11011/81/2026-PURCHASE-ADG(E)-(SZ)

Date: 04.09.2026

1	Bidder Name:	
2	Number of Years in Operation	
3	Address of Registered Office	City: District: State: PIN/ZIP:
4A	Bidder's address where order/contract is to be placed	City: District: State: PIN/ZIP:
4B	Address from where Goods/ Services are to be dispatched/ provided along with GST no. <i>(In case supply of Goods/ Services are from multiple locations, addresses and GST n o . of all such locations are to be provided)</i>	City: District: State: PIN/ZIP: GST No.:

	(Indian Bidder only)	
5	Telephone Number of address where order is to be placed	(Country Code) (Area Code) (Telephone Number)
6	E-mail address	
7	Fax Number (if available)	(Country Code) (Area Code) (Telephone Number)
8	Website	
9	Name & Designation of Contact Person	
10	ISO Certification, if any {If yes, please furnish details}	
12	Banker's Name	
13	Branch	
14	Branch Code	
15	Bank Account Number	
16	PAN No	
17	Status of Firm	Proprietorship Firm/Partnership firm/Limited/Others If Others Specify: [Enclose relevant certificates / partnership deed/certificate of Registration, as applicable]
18	GST No. (refer Sl. No. 4B above)	[Enclose copy of GST Certificate]

19	Whether Micro or Small Enterprise? (Indian Bidder only)	Yes / No <i>(If Yes, Bidder to submit requisite documents as specified in ITB)</i>
20	Type of Entity (Indian Bidder only)	Corporate/ Non-Corporate (As per CGST/SGST/UTGST Act). (In case of Non-Corporate Entity, bidder will submit documentary evidence for same).
21	Whether Bidder is Startups or not? (Indian Bidder only)	Yes / No
22	Whether Bidder is related to any employee of Prasar Bharati? (If, yes, then the list may also be enclosed as mentioned in Para 2.30.3)	Yes / No

Place: [Signature of Authorized Signatory of Bidder]

Date: Name:

Designation:

Seal

ANNEXURE-2 (FORM-2)

BID SUBMISSION FORM AND AGREEMENT

To,

THE ADDL.DIRECTOR GENERAL (E) (SZ)
ALL INDIA RADIO & DOORDARSHAN
SWAMI SIVANANDA SALAI, CHENNAI - 5

Sub: Dismantling, Transportation, Design and Construction of Foundation , Erection of Self Supporting 45 M High Lattice Steel Tower at Akashvani Mahabubnagar as per specification

TENDER NO: J-11011/81/2026-PURCHASE-ADG(E)-(SZ)

Date.04.09.2026

Dear Sir,

After examining / reviewing the Bidding Documents for the tender of "Including" Specifications & Scope of Work", "General Term Conditions [GTC]" and "Price Bid", etc. the receipt of which is hereby duly acknowledged, we, the undersigned, are pleased to offer to execute the whole part of the job and in conformity with the said Bid Documents, including Addenda / Corrigenda Nos. .

We confirm that this Bid is valid for a period as specified in BDS from the date of opening of "Techno-Commercial / Un-priced Bid", and it shall remain binding upon us and may be accepted by any time before the expiry of that period and any extension thereof.

If our Bid is accepted, we will provide the "Contract Performance Security / Security Deposit" equal to " 3%of the Contract Price or it is contingent based on revised OM if any at the time placing order " as mentioned in Tender Document for the due performance within "thirty [30] days" of such Award.

Until a final Agreement/Letter of Award is prepared and executed, the tender document (including addenda/ corrigenda) together with the "Notification of Award" shall constitute a binding Agreement between us.

We understand that Bidding Document is not exhaustive and any action and activity not mentioned in Bidding Documents but may be inferred to be included to meet the intend of the Bidding Documents shall be deemed to be mentioned in Bidding Documents unless otherwise specifically excluded and we confirm to perform for fulfilment of Agreement and completeness of the Work in all respects within the time frame and agreed price.

We understand that you are not bound to accept the lowest priced or any Bid that you may receive.

Place: [Signature of Authorized Signatory of Bidder]

Date: Name:

Designation:

Seal:

ANNEXURE-4 (FORM-4)

(PROFORMA OF BANK GUARANTEE FOR BID BOND)

Bank Guarantee No. _____

Ref :

THE ADDITIONAL DIRECTOR GENERAL (E)(SZ)
ALL INDIA RADIO AND DOORDARSHAN
SWAMY SIVANDA SALAI
CHENNAI – 600005

Dear Sirs,

Whereas the PRASAR BHARATI(India's Public Service Broadcaster), having its head office at O/o THE ADDITIONAL DIRECTOR GENERAL(E)(SZ) ALL INDIA RADIO AND DOORDARSHAN CHENNAI – 600005 (hereinafter called the Organization) which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and assignees, has floated a Tender No. _____ and M/s

_____ having Registered/ Head Office at _____ (Hereinafter called the "Bidder" which expression shall, unless repugnant to the context or meaning thereof, mean and include all its successors, administrators executors and assignees) have submitted a quotation Reference No. _____ and Bidder having agree to furnish as a conditions precedent for participation in tender as unconditional and irrevocable bank guarantee of Rupees _____ Only) for the due performance of Bidder/s obligations as contained in the terms of the Notice inviting Tenders (NIT) and other terms and conditions contained in the Tender Documents supplied by the Organization specially the conditions that (a) Bidder shall keep his tender open for a period of day, i.e., from _____ to _____ or any extension thereof, and shall not withdraw or modify it in a manner not acceptable to the Organization(b) the Bidder will execute the contract, if awarded, and shall furnish performance guarantee in the format prescribed by the Organization within the required time. The Bidder has absolutely and unconditionally accepted these conditions. The Organization and the Bidder have agreed that NIT/tender document is an offer made on the condition that the tender, if submitted would be kept open in its original form without variation or modification in a manner not acceptable to the Organization for a period of _____ days, i.e., from _____ to _____ or any extension thereof and that making of the tender itself shall be regarded as an unconditional and absolute acceptance of the conditions, contained in NIT and the tender documents. They have further agreed that the contract consisting of NIT/Tender documents as the OFFER and submission of the tender as the ACCEPTANCE shall be a separate contract distinct from the contract which will come into existence when the tender is finally accepted by the Organization. The consideration for this separate initial contract preceding the main contract is that the Organization is not agreeable to sell the NIT/tender documents to the Bidder and to consider the tender to be made except on the condition that the tender shall be kept open for the period indicated above and the Bidder desires to make a tender on this condition after entering into this separate initial contract with the Organization promises to consider the tender on this condition and Bidder agrees to keep this tender open for the required period. These reciprocal promises form the CONSIDERATION for this separate initial contract between the parties.

2. Therefore, we _____ registered _____ (indicate the name of Bank)under the laws of _____ having head/registered office at _____ (hereinafter) referred to as the "Bank" which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators and executors hereby issue irrevocable and unconditional bank guarantee and undertake to pay immediately on first demand in writing Rupees _____ at any time immediately on such demand without any demur, reservations, recourse, contest or protest and/ or without any

reference to the Bidder and any such demand made by the Organization on the bank shall be conclusive and binding notwithstanding any difference between organization and the Bidder or any dispute pending before any court arbitrator or any other matter whatsoever. We also agree to give that Guarantee herein the Organization in writing. This guarantee shall not be determined/discharged/affected by the liquidation, winding up, dissolution or insolvency of the Bidder and will remain valid, binding and operative against the bank.

3. The bank also undertakes that the Organization at the option shall be entitled to enforce this guarantee, against the Bank as a principal debtor, in the first instance, without proceeding against the Bidder.

4. The bank further agree that as between the bank and the Organization, for purpose of the guarantee, any notice of the breach of the conditions contained in NIT and other terms and conditions contained in the Tender Documents as referred above given to the bank by the Organization shall be conclusive and binding on Bank, without any proof, notwithstanding any other matter or difference or dispute whatsoever. We further agree that this guarantee shall not be affected by any change in our constitution, in the constitution of the Organization or that of the Bidder. We also undertake not to revoke, in any case, this Guarantee during its currency.

5. The bank agrees with the Organization that the Organization shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms of the tender or get extension of the validity period from time to time. We shall not be relieved from our liability by reason of any such variation or extension of the validity period or for any forbearance, act of omission and commission on the part of the Organization or any indulgence shown by the Organization to the said Bidder or by any such matter or thing whatsoever which under the law relating to sureties, would, but for this provision, have the effect of so relieving us.

6. Notwithstanding anything contained herein above our liability under this Guarantee is limited to Rupees (_____ only) in aggregate and it shall remain in full force upto and including 45 days after _____ unless extended further (indicate the last date of validity period) from time to time, for such period as may be instructed in writing by M/s _____ on whose behalf this guarantee has been given, in which case, it shall remain in full force upto and including 45 days after the expiry of extended period. Any claim under this guarantee must be received by us before the expiry of 45 days from _____ or (indicate the last date of validity period) before the expiry of 45 days after the expiry of extended period, if any, if no such claim has been received by us within 45 days after the said date/extended date, the rights of the Organization under this guarantee will cease subject to Para 8. However, if such a claim has been received by us within and upon forty five days after the said date/extended date, all rights of the organization under this guarantee shall be valid and shall not cease until we have satisfied that claim.

7. In case contract is awarded to the Bidder here in after referred to as "Contractor" the validity of this Bank Guarantee will stand automatically extended until the contractor furnished to the Organization a bank guarantee for Rs. _____ (in figure) (Rupees _____ only) (in words) towards performance guarantee for satisfactory performance of the contract. In case of failure to furnish performance bank Guarantee in the format prescribed by this Organization by the required date the claim must be submitted to us within 120 days after the last date of validity period or extended period, if any. If no such claim has been received by us within 120 days after the said date/extended date, rights of the organization under this guarantee will cease. However if such a claim has been received by us within and upto 120 days after the said date/extended date all rights of the Organization under this guarantee will cease. However, if such a claim has been received by us within and upto 120 days after the said date/extended date, all rights of the Organization under this guarantee shall be valid and shall not cease until we have satisfied that claim.

8. The Bank confirms that this guarantee has been issued with the approval of appropriate Exchange Control Authority in _____ and any other authority (indicate the name of the

country of issue of Guarantee) if required as per the laws of the country of issue of guarantee.

The bank confirms that this guarantee has been issued with observance of the appropriate Exchange Control rules and Regulations of the country.

In witness whereof the Bank, through its authorised officer, has set its hand & stamp on this _____ day of _____ at _____ of _____ (month & year)

Signature

(Full name in capital letters)

(Designation with bank stamp)

Date.....

Witness No. 1

Signature
Full name and Address (in capital letters).....
.....
.....

Witness No. 2

Signature
Full name and Address (in capital letters).....
.....
.....

INSTRUCTIONS

(FOR FILLING UP BANK GUARANTEE FOR BID BOND)

1. **The bank guarantee should be stamped in accordance with the Stamp Act.**
2. **The non-judicial stamp paper should be in the name of the issuing bank.**
3. Clause 7 of the bank guarantee is applicable in cases of global tenders where foreign tenders also participate. When tenders are invited from parties within India, clause 7 may be deleted and replaced by clause. "The bank also agrees that courts of the place from where tenders have been invited shall have exclusive jurisdiction".
4. Please indicate the currency in which bank guarantee is being given Rs/- have been mentioned only for illustrations. Therefore, in cases where bank guarantee is being given in a currency other than Rupees' or US Dollars' these terms may be deleted and replaced by relevant currency.
5. The period of forty five (45) days mentioned in clause 6 and one hundred twenty (120) days as given in clause 6 should be available after the expiry of the validity period of the tender or any extension thereof.
6. The bank guarantee by Indian bidder will be given from an Indian scheduled commercial bank only. The foreign bidders will give Bank Guarantee from an Indian scheduled commercial bank situated in that country. In case no Indian Bank is situated in bidder's country then Bank Guarantee from a foreign bank acceptable to the Organization will be considered, provided it is confirmed by an Indian scheduled commercial bank and shall be governed by the Indian laws and subject to the jurisdiction of the courts in New Delhi.

ANNEXURE-5 (FORM-5)				
Check List				
Tender no.		J-11011/81/2026-PURCHASE-ADG(E)-(SZ)		Date: 04.09.2026
Specification no				
Specification for				
(COMMERCIAL)				
Group A				
Name of Bidder and Address				
GSTIN of Firm				
S.No	Description			YES / NO / NOT APPLICABLE
Remarks				
1.1	Whether requisite tender Processing fee has been paid?			
2.1	Whether TDR/FDR/DD/Bank Guarantee for the requisite earnest money/Bid Bond enclosed with the offer?			
2.2	If so, furnish the following			
	I	Name of the Bank		
	II	Value		
	III	Number		
	IV	Date of issue		
	V	Period of validity of the DD/FDR/ Bank Guarantee (it should not be for less than 165 days(90 days in case of DD) from the date of opening of Technical Bid)		
3	Have the rates, prices and totals etc. been checked thoroughly before signing the tender?			
4	Has a statement incorporating the Nil-deviation from the commercial terms and conditions of this Organization has been prepared and enclosed with the offer?			
5	Whether charges for training of this Organization's officials included in the prices? If not, whether these have been quoted separately?			
6	Whether firm FOR Destination prices have been quoted?			
8	Whether the cost of installation/erection/commissioning at site is included in the prices or not and whether it has been quoted separately?			
9	Whether the period of validity of the offer is as required in the tender document. If not, mention the extent of variation in days.			
10	Whether the offer has been signed indicating full name ?			

11	Are the pages of the tender consecutively numbered and an indication given on the front page of the tender as to how many pages are contained in the tender?		
12	Has the tender been prepared in sufficient details/clarity so as to avoid post tender clarifications/amendments?		
13	Whether required sample asked in tender has been submitted along with the offer		
14	Whether all Clauses of the tender are accepted?		
15	If not, the clauses not accepted may please be indicated		
16	Whether guarantee/warranty has been furnished?		
17	Whether Commercial bid and technical bid of the tender document duly filled in and submitted.		
18	Whether each Page of Appendix- A,B, C, D, and E of the tender document is signed and submitted with the offer.		
19	Whether Integrity Pact duly signed is submitted?		
Group B			
1	Whether a copy of the latest income tax return has been enclosed?		
2	Whether details of your registration under GST have been indicated in the offer?		
Group C			
(Technical)			
1	Whether necessary literature/catalog of the full complement of equipment offered as well as operation service and maintenance manual thereof has been attached with the offer?		
2	Whether the material being offered fully conforms to all the required technical specifications (Appendix-D) ?		
3	If not, has the extent of deviation and how it is suitable to this Organization's requirement been specified.		
5	Whether the model of each equipment offered are the latest?		
6	Whether the spares support will be available for a period of 5 years from the date of supply?		
7	Do you have an after-sales service centre in India?		
	If no, which is the nearest service centre(Address).		
8	Whether complete details of after-sales service arrangements given including training for the officials of this organization?		

ANNEXURE-6 (FORM-6)

(Technical Bid)

Sub: Dismantling, Transportation, Design and Construction of Foundation , Erection of 45 M High Self Supporting Lattice Steel Tower at Akashvani Mahabubnagar as per specification

Tender No:J-11011/81/2026-PURCHASE-ADG(E)-(SZ)

Date.04.09.2026

NIL DEVIATION
CERTIFICATE

Notwithstanding anything mentioned in our bid, we hereby accept all the terms and conditions of this Tender Document without any reservations whatsoever. We hereby undertake and confirm that we have understood all the specifications, stipulations, terms and conditions as mentioned in this Tender enquiry.

I hereby declare that – There is no deviation in the offer.

Signature of Authorized Signatory of Bidder

Name:

Designation:

Date:

Place:

Seal of Organization:

ANNEXURE-7 (FORM-7)

ANNEXURE-7 (FORM-7)					
	BIDDERS PAST SUPPLIES/EXPERIENCE PROFORMA				
Sl . N o.	Name & address of client	Period from	Description in detail	Total quantity supplied	Remarks

ANNEXURE-8 (FORM-8)

**DECLARATION REGARDING HOLIDAY/BANNING AND LIQUIDATION, COURT
RECEIVERSHIP**

To,
THE ADDL.DIRECTOR GENERAL (E) (SZ)
ALL INDIA RADIO & DOORDARSHAN
SWAMI SIVANANDA SALAI, CHENNAI - 5

Sub: Dismantling, Transportation, Design and Construction of Foundation , Erection of 45 M High Self Supporting Lattice Steel Tower at Akashvani Mahabubnagar as per specification

TENDER No :J-11011/81/2026-PURCHASE-ADG(E)-(SZ)

Date.04.09.2026

Dear Sir,

We hereby confirm that we are not on 'Holiday' by any offices of Prasar Bharati/ AIR/ DD/ CCW/ Government or Public Sector (due to "poor performance" or "corrupt and fraudulent practices") or banned by Government department/ Public Sector on due date of submission of bid.

Further, we confirm that neither we nor our allied agency/(ie) (as defined in the Procedure for Action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practices) are on banning list of Government or Public Sector.

We also confirm that we are not under any liquidation, court receivership or similar proceedings or 'bankruptcy'.

In case it comes to the notice of Prasar Bharati that the bidder has given wrong declaration in this regard, the same shall be dealt as 'fraudulent practices' and action shall be initiated as per the Procedure for action in case of Corrupt/Fraudulent/Collusive/Coercive Practices.

Further, we also confirm that in case there is any change in status of the declaration prior to award of contract, the same will be promptly informed to Prasar Bharati by us.

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

LETTER OF AUTHORITY

[Proforma for Letter of Authority for Attending Pre-Bid Meetings' /'Un-priced Bid Opening' /
'Price Bid Opening'/Subsequent 'Negotiations']

Ref:

Date:

To,
THE ADDL.DIRECTOR GENERAL (E) (SZ)
ALL INDIA RADIO & DOORDARSHAN
SWAMI SIVANANDA SALAI, CHENNAI - 5

Sub: Dismantling, Transportation, Design and Construction of Foundation , Erection of 45 M High Self Supporting Lattice Steel Tower at Akashvani Mahabubnagar as per specification

TENDER No :J-11011/81/2026-PURCHASE-ADG(E)-(SZ)

Date: 04.09.2026

Dear Sir,

I/We, <_____>hereby authorize the following representative(s) for attending any 'Meetings [Pre-Bid Meeting]', 'Un- priced Bid Opening', 'Price Bid Opening' and for any subsequent 'Negotiations' correspondence / communication against the above Bidding Documents:

[1] Name & Designation

Signature

[2] Phone/Cell:

Fax:

E-mail: @

[3] Name & Designation

Signature

[4] Phone/Cell:

Fax:

E-mail: @

We confirm that we shall be bound by all commitments made by aforementioned authorised representative(s).

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

Note: This "Letter of Authority" should be on the "letterhead" of the Firm / Bidder and should be signed by a person competent and having the 'Power of Attorney' to bind the Bidder. Not more than 'two [02] persons per Bidder' are permitted to attend "Techno-commercial / Un-priced" & "Price Bid" Openings. Bidders authorized representative is required to carry a copy of this authority letter while attending the un-priced and priced bid opening, the same shall be submitted to PRASAR BHARATI.

E-Banking Mandate Form

(To be issued on Bidder letter head)

1. Bidder/customer Name:
2. Bidder /customer Address:
3. Bidders' e-mail id:
4. Particulars of bank account
 - a) Name of Bank
 - b) Name of branch
 - c) Branch code:
 - d) Address:
 - e) Telephone number:
 - f) Type of account (current/saving etc.)
 - g) Account Number:
 - h) IFSC of the bank branch
 - i) 9 digit MICR code

I/We hereby authorize Prasar Bharati to release any amount due to me/us in the bank account as mentioned above. I/We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or lost because of incomplete or incorrect information, we would not hold Prasar Bharati responsible.

(Signature of Bidder/)

ANNEXURE-11 (FORM-11)

- 1. Eligibility Declaration Form'-** Form- 11- to be furnished by the Bidder, shall be replaced as given below; **Form-3 can be omitted.**

Eligibility Declarations

(Ref ITB-clause _____)

(To be submitted as part of Technical bid)

(On Company Letter-head)

(Along with supporting documents, if any)

Tender Document No. Tender No./ xxxx; Tender Title:

Bidder's Name _____

[Address and Contact Details]

Bidder's Reference No. _____ Date.....

Note: The list below is indicative only. You may attach more documents as required to confirm your eligibility criteria.

Eligibility Declarations

(Please tick appropriate boxes or cross out any declaration not applicable to the Bidder)

We hereby confirm that we are comply with all the stipulation of NIT-clause __ and ITB-clause _____and declare as under and shall provide evidence of our continued eligibility to the Procuring Entity as may be requested:

- 1) **Legal Entity of Bidder:** _____
- 2) **OEM/ Manufacturer/ Agent/ Dealership Status:** _____
- 3) We ☐ are/ ☐ are not a JV _____
- 4) We solemnly declare that we (including our affiliates or subsidiaries or constituents):
 - a) are not insolvent, in receivership, bankrupt or being wound up, not have our affairs administered by a court or a judicial officer, not have our business activities suspended and are not the subject of legal proceedings for any of these reasons;
 - b) (including our Contractors/ subcontractors for any part of the contract):

Do not stand declared ineligible/ blacklisted/ banned/ debarred by the Procuring Organisation or its Ministry/ Department from participation in its Tender Processes; and/ or

Are not convicted (within three years preceding the last date of bid submission)or stand declared ineligible/ suspended/ blacklisted/ banned/ debarred by appropriate agencies of Government of India from participation in Tender Processes of all of its entities, for offences mentioned in Tender Document in this regard. We have neither changed our name nor created a new "Allied Firm", consequent to the above disqualifications.

- c) Do not have any association (as bidder/ partner/ Director/ employee in any capacity) with such retired public official or near relations of such officials of Procuring Entity, as counter-indicated, in the Tender Document.
- d) We certify that we fulfil any other additional eligibility condition if prescribed in Tender Document.
- e) We have no conflict of interest, which substantially affects fair competition. The prices quoted are competitive and without adopting any unfair/ unethical/ anti-competitive means. No attempt has been made or shall be made by us to induce any other bidder to submit or not to submit an offer to restrict competition.

5) **Restrictions on procurement from bidders from a country or countries, or a class of countries under Rule 144 (xi) of the General Financial Rules 2017:** We certify as under:

“We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries, and solemnly certify that we fulfil all requirements in this regard and are eligible to be considered. We certify that:

we are not from such a country or, if from such a country, we are registered with the Competent Authority (copy enclosed). and;

we shall not subcontract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

6) **MSME Status:**

Having read and understood the Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 (as amended and revised till date), and solemnly declare the following:

- a) We are - Micro/ Small/ Medium Enterprise/ SSI/ Govt. Deptt. / PSU/ Others:.....
- b) We attach herewith, Udhyam Registration Certificate with the Udhyam Registration Number as proof of our being MSE registered on the Udhyam Registration Portal. The certificate is the latest up to the deadline for submission of the bid.
- c) Whether Proprietor/ Partner belongs to SC/ ST or Women category. (Please specify names and percentage of shares held by SC/ ST Partners):.....

7) **Start-up Status**

we confirm that we ☐ are/ ☐ are not a Start-up entity as per the definition of the Department of Promotion of Industrial and Internal Trade – DPIIT.

8) **Make in India Status:**

Having read and understood the Public Procurement (Preference to Make in India PPP - MII) Order, 2017 (as amended and revised till date) and related notifications from the relevant Nodal Ministry/ Department, and solemnly declare the following:

(a) Self-Certification for the category of suppliers:

(Provide a certificate from statutory auditors/ cost accountant in case of Tenders above Rs 10 Crore for Class-I or Class-II Local Suppliers). Details of local content and location(s) at which value addition is made are as follows:

Local Content and %age	
Location(s) of value addition	

Therefore, we certify that we qualify for the following category of the supplier (tick the appropriate category): Class-I Local Supplier/

- ☐ Class-II Local Supplier/
- ☐ Non-Local Supplier.

(b) We also declare that

- There is no country whose bidders have been notified as ineligible on a reciprocal basis under this order for an offered Goods, or
- We do not belong to any Country whose bidders are notified as ineligible on a reciprocal basis under this order for the offered Goods.

9) Self-Declaration by Indian Agents/ Associates of Foreign Principals(if applicable)

Self-attested documentary evidence about their identity (PAN, Aadhar Card, GSTIN registration, proof of address, etc.), business details (ownership pattern and documents, type of firm, year of establishment, sister concerns etc.) to establish that they are a Bonafide business as per Indian Laws – are submitted as part of Form _____annexed herewith.

Agency Agreement shall be submitted with Form _____. It shall cover

the precise relationship, services to be rendered, mutual interests in business - generally and/ or specifically for the tender and any payment the agent or associate receives in India or abroad from the foreign OEM/ principal, whether a commission or a general retainer fee.

Our Foreign principals, explicitly authorizing us to make an offer in response to the tender, either directly or in association with them, are listed in Form ____ and ____ annexed herewith. That also indicates their name, address, nationality, status (i.e., whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal).

The amount of commission/ remuneration included in the price (s) quoted by Bidder for agents or associated bidder is detailed in Form _____.

Confirmation is given in Form _____annexed herewith from the foreign principals that the commission/ remuneration, reserved for Bidder in the quoted price(s), if any, shall be paid by the Procuring Entity in India, in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Goods and Spares.

10) Penalties for false or misleading declarations:

We hereby confirm that the particulars given above are factually correct and nothing is concealed and undertake to advise any future changes to the above details. We understand that any wrong or misleading self-declaration would violate the Code of Integrity and attract penalties as mentioned in this Tender Document.

.....

(Signature with date)

.....

(Name and designation)

Duly authorized to sign bid for and on behalf of

.....

[name & address of Bidder and seal of company]

ANNEXURE-13 (FORM-13)

BIDDER'S QUERIES FOR PRE BID MEETING

Sub: Dismantling, Transportation, Design and Construction of Foundation , Erection of 45 M High Self Supporting Lattice Steel Tower at Akashvani Mahabubnagar as per specification

TENDER No::J-11011/81/2026-PURCHASE-ADG(E)-(SZ)

Date: 04.09.2026

SL. NO.	REFERENCE OF BIDDING DOCUMENT				BIDDER'S QUERY	For the Use of Office.
	SEC. NO.	Page No.	Clause No.	Subject		

NOTE: The Pre-Bid Queries may be sent by e-mail before due date for receipt of Bidder's queries.

The Address / Email / to **Send Queries :adgszpurchase@prasarbharati.gov.in**

SIGNATURE OF BIDDER:

NAME OF BIDDER :

ANNEXURE-14 (FORM-14)

(PROFORMA FOR BANK GUARANTEE FOR PERFORMANCE SECURITY)

(To be stamped in Accordance with Indian stamp Act)

The Non-judicial stamp paper should be in the name of issuing Bank

RefBank Guarantee No.

To

THE ADDITIONAL DIRECTOR GENERAL (E) (SZ)
ALL INDIA RADIO AND DOORDARSHAN
CHENNAI – 600005

Dear Sirs,

In consideration of PRASAR BHARATI (India's Public Service Broadcaster), O/o The Additional Director General (E) (SZ) All India Radio and Doordarshan Chennai - 600005

- 1 (herewith referred to as the Organisation which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and assignees and having entered into a contract dated (hereinafter called "the contract" which expression shall include all the amendments thereto) on behalf of the PRASAR BHARATI with M/s_____ having its Head/ Registered office at _____ (hereinafter referred to the contractor which expression unless repugnant to the context having been executors and assigns) and the contract having been unequivocally been accepted by the contractor resulting in a contract bearing No._____ dated_____ valued at Rs._____ (Rupees_____ (in words) for having agreed that the contractor shall furnish to the organization Performance Guarantee for the faithful performance of the entire contract to the extent of 3% **of the of the value of the contract or it is contingent based on revision of OM if any at the time of placing order** Rupees_____ (in words). We_____ (Name of the Bank) having its registered unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and assignees do hereby guarantee and undertake to pay immediately on first demand in writing, in Rupees as acceptable to the Organization any and all moneys the extent of Rupees_____ (In words). In aggregate at any time without any demur, reservations, recourse, contest or protests and /or without any reference to the contractor. Any such demands made by the Organization on the Bank shall be conclusive and binding notwithstanding any difference between the Organization and contractor or any dispute pending before any court Arbitrator or any other authority. We agree that guarantee herein contained shall be irrevocable and shall continue to be enforceable till it is discharged by the Organization in writing The Organization shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee, from time to time to extend the time for performance of the contract by the contractor or vary the terms of the contract. The Organization shall have the fullest liberty without affecting this guarantee to

postpone from time to time the exercise of power vested in them or of any right which they might at anytime in any manner, and either to enforce, or to forbear to enforce, any covenants contained or implied in the contract between the Organization and the contractor or any other course or remedy or security available to the Organization. The Bank shall not be released of its obligations under these presents by any exercise by the Organization of its liberty with reference to matter aforesaid or any of them or by reason of any other act of forbearance or other acts of omission or commission on the part of the Organization or any other indulgence shown by the Organization or by any other matter or thing whatsoever, which under law would, but for this provision, have the effect of relieving the Bank.

- 2 The Bank also agrees that the Organization at its option, shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance, without proceeding against the contractor and notwithstanding any security or other guarantee that the Organization may have in relation to the contractors liabilities.
- 3 The Bank further agrees that the Guarantee herein contained shall remain in full force during the period that is taken for the performance of the contract i.e. complete delivery of the material/equipment as the same is a condition of supply contract and all the dues of the Organization under or by virtue of this contract, have been fully paid and its claim satisfied or discharged or till the Organization discharge this guarantee in writing.
- 4 We further agree that as between us and the Organization for the purpose of this guarantee any notice given to us by the Organization that the money is payable by the contractor and any amount claimed in such notice by the Organization shall be conclusive and binding on us notwithstanding any difference between the Organization and the contractor or any dispute pending before any court, Tribunal, Arbitrator or any other authority. We further agree that this Guarantee shall not be affected/discharged by any change in our constitution, in the constitutions of the Organization that of the contractor. We also undertake not to revoke this guarantee during its currency. This guarantee shall not be determined discharged or affected by the liquidation, winding up, dissolution or insolvency of the contractor and shall remain valid, binding and operative against the Bank.
6. Notwithstanding anything contained herein above, our liability under this guarantee is limited to Rs. _____ (In figure) (Rupees _____) (In words) in aggregate and it shall remain in full force upto and including 60 days after (Indicate the date of expiry of Guarantee/Warranty period) unless extended further, from time to time, for such period as may be instructed in writing by M/s _____ on whose behalf this guarantee has been given, in which case it shall remain in full force upto the expiry of the extended period. Any claim under this guarantee must be received by us before the expiry of one year from _____ (indicate the date of expiry of Guarantee/warranty period) or before the expiry of one year after the expiry of extended period, if any. If no such claim has been received by us within one year after the said date/extended date, the right of the Organization under this guarantee will cease, However, if such a claim has been received by us within and up to one year after the said date/extended date, all the rights of the Organization under this Guarantee shall be valid and shall not cease until we have satisfied that claim.
7. The bank confirms that this guarantee has been issued with the approval of the appropriate

Exchange Control, Rules and regulations of the country.

We also agree that this guarantee shall be governed and construed in accordance with Indian Laws and subject to the exclusive jurisdiction of Indian courts.

The bank also agrees that Courts of New Delhi, India shall have exclusive jurisdiction.

Dated this.....day of

At

(SIGNATURE)
(Full name and address in of official capital letter)
(Designation with Bank Stamp)
Date

Witness No. 1

Signature

Full name and Address (incapital letters).....
.....

Witness No. 2

Signature

Full name and Address (in capital letters).....
.....

* Applicable where the party is foreign one.

** Applicable where the party is Indian.

3.1 INSTRUCTIONS

(FOR FILLING UP BANK GUARANTEE FOR PERFORMANCE BOND)

I.The Bank guarantee should be stamped in accordance with the stamp act.

II.The non-judicial stamp paper should be in the name of the issuing bank.

The bank also agrees that the Court of New Delhi India shall have exclusive jurisdiction.

- a. The period one year mentioned in clause 6 should be available after the expiry of the validity period/satisfactory performance, as the case may be, or any extension of such period.
- b. The Bank Guarantee by bidders will be given from any Scheduled Commercial Bank in India.
- c. In the case of guarantee by a foreign bank, the same should be got confirmed by an Indian Commercial bank.

3. GENERAL TERMS AND CONDITIONS (GTC)

(Each page must be signed and submitted along with your offer)

3.1.1 DEFINITIONS

Unless inconsistent with or otherwise indicated by the context, following terms stipulated in this GTC shall have the meaning as defined hereunder.

3.1.2 ORDER

3.1.3 Shall mean written purchase order or acceptance of Tender(AT) issued by this organisation to the successful bidder including subsequent amendments to ORDER or AT in writing thereof.

3.1.4 THE ORGANISATION /PURCHASER

Shall mean **ADG(E)(SZ), All India Radio & Doordarshan, Swamy Sivananda Salai, Chennai India**, acting on behalf of the PRASAR BHARATI (India's Public Service Broadcaster), which shall include all their legal representatives, successors and assignees.

3.1.5 SUPPLIER/CONTRACTOR

Shall mean any person or persons of firm or company in India as well as abroad whose bid has been accepted by this organization and the legal representation, representatives, successors and permitted assignee of such person, persons, firm or company.

3.1.6 SUB-CONTRACT

Shall mean ORDER placed by the SUPPLIER/CONTRACTOR for any portion, of the ORDER or work subletted with necessary written consent of this organization on third party. Such subletting shall not relieve the contractor from any obligation, duty or responsibility under the Contract.

3.1.7 SUB-CONTRACTOR

Shall mean any person or persons or firm or their legal representatives, successors, assignees to whom part of ORDER has been subletted by the SUPPLIER/CONTRACTOR after necessary consent of this organization.

3.1.8 ORDER PRICE

Shall mean the sum accepted or the sum calculated in accordance with the rates accepted by this Organization and amendments thereof and shall include all fees, registration and other charges paid to statutory authorities without any liability on the Organization for any of these charges unless specially agreed to, in writing by this Organization.

3.1.9 DELIVERY PERIOD

Shall mean receipt of the stores, erection & commissioning of the stores depending on the type of contract (Supply of Stores/Works/SITC/SETC/DSETC) by the date specified in the ORDER.

3.1.10 DESTINATION

Shall mean the location of the consignees for which this ORDER has been issued.

3.1.11 EQUIPMENTS/MATERIALS

Shall mean and include any equipment, instruments, stores and goods to be supplied for under the ORDER and amendments thereto.

3.1.12 DRAWINGS

Shall mean and include all Engineering sketches, general arrangements, layout drawing Sectional plans, and all elevations etc., related to the ORDER together with modification and revision thereto.

3.1.13 SPECIFICATIONS

Shall mean and include detailed description, statements to technical data, performance characteristic and standards (Indian as well as international as applicable and as specified in the ORDER.

3.1.14 INSPECTORS

Shall mean any person or outside Agency nominated by this organization to inspect equipment, materials and services, if any, in the contract stage-wise as well as final on receipt at destination as per the terms of the ORDER.

3.1.15 TESTS

shall mean such process or processes to be carried out by the SUPPLIER/CONTRACTOR as are prescribed in the ORDER considered necessary by this organization or their representative in order to ascertain quality, workmanship, performance and efficiency of equipment or part thereof.

3.1.16 APPROVAL

Shall mean and include the written consent either manuscript, typewritten or printed statement under or over signature or seal as the case may be of this organization or the representative or documents or other particulars in relation to the ORDER.

3.1.17 F.O.R./F.O.B./FAS, C&F, CIF shall mean the terms as explained in INCO terms.

3.1.18 SCOPE OF ORDER

Scope of the order shall be as defined in the ORDER, specifications, drawings and Appendices thereto.

3.2 Completeness of the EQUIPMENT shall be the responsibility of the SUPPLIER/CONTRACTOR. Any equipment, fittings and accessories, which may not be specifically mentioned in the specification or drawing (s) but which are usual or necessary for the satisfactory functioning of the EQUIPMENT (successful operation and functioning of the equipment being SUPPLIER'S/CONTRACTOR'S responsibility) shall be provided by the SUPPLIER/CONTRACTOR without any extra cost.

3.3 The SUPPLIER/CONTRACTOR shall follow the best modern practice in the manufacture of high-grade EQUIPMENT notwithstanding any omission in that, the SUPPLIER/CONTRACTOR shall in all respect design, engineer, manufacture, and supply the same within delivery period to the entire satisfaction of the Organization.

3.4 WORK TO BE CARRIED OUT UNDER THE ORDER

All equipment to be supplied and work to be carried out under the ORDER shall conform to and comply with the provision of relevant regulations/Acts (State Govt. or Central Govt.) as may be applicable to the type of equipment/work carried out and necessary certificate shall be furnished.

3.5 SPECIFICATION, DRAWING, TECHNICAL MANUALS

3.5.1 The SUPPLIER/CONTRACTOR shall furnish copies as required by this organization and specified in the "Technical Specifications" at Appendix-D, of the technical documents, final drawing, preservation instructions, operation and maintenance manuals, test certificates, spare parts catalogue etc. before dispatch of the equipment.

3.5.2 The supplier/contractor shall be responsible for any loss to this Organization consequent to the furnishing of the incorrect data/drawings.

3.5.3 Specifications, design and drawings issued by this Organization to the supplier/contractor along with tender specification and ORDER are not to be sold or given on loan. These documents continue to remain property of this organization or their assignee and are subject to recall by this Organization.

3.5.4 The SUPPLIER/CONTRACTOR and its employees shall not make use of the drawings, specification and technical information for any purpose any time and shall not disclose the same to any person, firm or corporate authorities without written permission of the Organization. All such details shall be kept confidential.

3.5.5 In order to facilitate quick disposal, copies of the drawing for approval shall be sent directly and simultaneously to the authorities specified in the order in addition to the sets submitted to authority issuing order.

3.6 ACCEPTANCE OF ORDER

- 3.6.1** Within fifteen (15) days from date of mailing of ORDER, SUPPLIER/CONTRACTOR shall confirm acceptance of the order in its entirety.
- 3.6.2** The ORDER is accepted unconditionally by SUPPLIER/CONTRACTOR by returning to this Organization copy of the ORDER duly signed, without qualification.
- 3.6.3** When SUPPLIER/CONTRACTOR has accepted the order with all its terms and conditions, Bidder's Bid with General sales conditions and all previous correspondence are considered superseded and void.
- 3.6.4** Should SUPPLIER/CONTRACTOR not respect the time limit for the confirmation of the order or in case BIDDER cannot accept the ORDER without qualifications, this Organization reserves the right to cancel, in writing, without prejudice to other terms, the entire ORDER or part of it without notice. Under these circumstances the earnest money /bid bond given by the supplier will be forfeited in full.
- 3.7 MODIFICATION IN ORDER**
- 3.7.1** All modifications leading to changes in the order with respect to technical and commercial aspects, including terms of delivery, shall be considered valid only when accepted in writing by this Organization by issuing an amendment to the ORDER.
- 3.7.2** This Organization shall not be bound by any printed conditions, provision in the SUPPLIER'S BID, forms of acknowledgement of ORDER, invoice, packing list and other documents, which purport to impose any condition at variance with or supplement to ORDER.
- 3.8 PERFORMANCE SECURITY DEPOSIT.**
- 3.8.1** The successful bidder, within 30 (Thirty) days of the receipt of order/letter of intent, will be required to send Security Deposit in the form of Bank Draft or in lieu thereof a Bank Guarantee from an Scheduled Indian Commercial Bank for amount as indicated in Para 1.7.1 of the "Invitation to Bid". Being a FOR destination contract, the **Security Deposit shall be 3 % of the value of the order as applicable OM issued by MOF on 30.12.2021 or it is contingent based on revision of OM if any at the time of placing order.**
- 3.8.2** The security money may be deposited in the form of Bank guarantee/FDR/TDR in the proforma enclosed as Appendix to these General Terms and Condition (GTC).
- 3.8.3** This Organization shall not be liable to pay any Bank Charges, Commissions or interest on the amount of Security Deposit/Performance Bond.
- 3.8.4** Security Deposit, Performance Bond shall be refunded to the supplier after completion of warranty period as stipulated in the order. If the materials are supplied in the extended delivery period, the supplier will extend the validity of Bank Guarantee accordingly and the Bank Guarantee will be released after extended validity is expired.
- 3.8.5** For any equipment or spare parts thereof replaced during Guarantee/warranty period, it shall have further warranty for a period of 12 months from the date of acceptance as per Clause 3.9.5. The supplier will extend the validity of Bank Guarantee for a value proportionate to the value of the equipment for the period commensurate with the

period of Guarantee/Warranty extension and the Bank Guarantee will be released after completion of extended warranty period subject to fulfillment of other conditions stipulated in Clause 3.9, 3.9.1 to 3.10.2 below.

3.9 WARRANTIES AND GUARANTEES MATERIALS AND WORKMANSHIP

Unless some special Warranty/Guarantee clause has been stipulated elsewhere in the invitation to the tender or any of its Appendix, the following warranty shall form part of the contract placed on successful tender:-

- 3.9.1** SUPPLIER/CONTRACTOR shall fully warrant that all the stores, Equipment and components supplied under the ORDER shall be new and of first quality according to the specifications and shall be free from any defects (concealed fault, deficiency in design, materials and workmanship).
- 3.9.2** Should any defects be noticed in design, material and/or workmanship within 15 months from the date of shipment/dispatch of last consignment or the guarantee/warranty period as specified in specifications(Appendix-D) whichever is later, the organization shall inform Supplier/Contractor and Supplier/Contractor shall immediately on receipt of such intimation, depute their personnel within 14 days to investigate the causes of defects and arrange rectification/replacement/modification of the defective equipment at site without any cost to the Organization within a reasonable period(Maximum upto 30 days). If the Supplier/Contractor Fails to take proper corrective action to repair/replace the defects satisfactorily within the reasonable period, this Organization shall be free to take such corrective action as may be deemed necessary at SUPPLIER'S/CONTRACTOR'S risk and cost after giving notice to the SUPPLIER/CONTRACTOR.
- 3.9.3** Damage to the machinery and/or equipment due to incomplete and erroneous instructions issued by Supplier/Contractor will be responsibility of the Supplier/Contractor and will be treated according to the provisions of warranty clause. Normal wear & tear shall not come under purview of this clause.
- 3.9.4** In case defects are of such nature that equipment shall have to be taken to Supplier's/Contractor's Works for rectification etc. Supplier/Contractor shall take the equipment at his cost after giving necessary undertaking or security as may be required by the Organisation. This Organisation shall, if so required by the Supplier/Contractor, dispatch the equipment by quickest mode on "Freight-to pay" basis to the Supplier's/Contractor's works. After repairs, Supplier/Contractor shall deliver the equipment at site on freight prepaid basis. All risks in transit to and fro shall be borne by the Supplier/Contractor.
- 3.9.5** Equipment or spare parts thereof replaced shall have further warranty for a period of 12 months from the date of acceptance.

- 3.9.6** The Supplier/Contractor shall guarantee that they will supply spare parts if and when required on agreed price. The agreed price should include, but without any limitation to, agreed discount on the published catalogue price or on agreed percentage of profit on the landed cost.
- 3.9.7** The Supplier/Contractor will warranty that before going out of production for any of the spare parts, they will give adequate advance notice to the purchaser so that the latter may undertake to procure, if necessary, the balance of the life time requirements.
- 3.9.8** If the repairs, replacement or modification referred are of such nature as may affect the efficiency of the EQUIPMENT, this organization shall have the right to give to the SUPPLIER/CONTRACTOR, within one month of such replacement/renewal, notice in writing to carry out test as may be required for acceptance of the equipment.
- 3.9.9** If the Supplier/Contractor fails to honor his obligation to repair or replace defective goods within a reasonable period of time, or if Supplier/Contractor refuses to carry out work under the guarantee clause and implied guarantee condition, if danger is anticipated or in case of severe urgency, the organization shall be entitled to carry out, at Supplier's/Contractor's cost and risk, repair work or replacement deliveries or have it done by a third party. In case not all goods have been delivered by Supplier/Contractor, this organization is entitled to procure the remaining goods at Supplier's/Contractor's cost and risk. This does not relieve Supplier/Contractor of any of his guarantee obligations. Taxes and duties of any kind whatever imposed by the authorities of the country of the supplier/contractor or his sub-contractors until delivery shall be borne by supplier.

3.10 PERFORMANCE GUARANTEE

- 3.10.1** SUPPLIER/CONTRACTOR shall guarantee that the performance of the EQUIPMENT/MATERIAL supplied under the order shall be strictly in conformity with specification and shall perform the duties specified under the ORDER.
- 3.10.2** The SUPPLIER/CONTRACTOR shall guarantee that the materials/equipment that shall be purchased from the sub-contractor(s) shall be such as to fulfill the requirements laid down vide **Para 3.9 ,3.9.1 to 3.10.1** above and shall undertake to ensure fulfillment of these requirements.

3.11 REJECTION

If the ORGANISATION finds that the goods supplied are not in accordance with the specification and other condition stated in the order or its sample (s) are received in damaged conditions (of which matters this organization will be the sole judge), this organization shall be entitled to reject the whole of the goods or the part, as the case may be, and intimate to the supplier/contractor the rejection without prejudice to the Organization's other rights and remedies to recover from the supplier any loss which the ORGANISATION may be put to, also reserving the right to forfeit the security deposit/performance bond, if any, made for the due fulfillment of the contract. The goods shall be removed by the supplier/contractor and if not removed within 14 days

of the date of communication of the rejection, the organization will be entitled to dispose-off the same on account and at the risk of the supplier/contractor and after recovering the storage charges at the rate of 5% of the value of goods of each month or part of month and loss and expense, if any caused to the organization, pay balance to the supplier/contractor.

3.12 FAILURE AND TERMINATION CLAUSE

Time and date of delivery shall be the essence of the contract. If the supplier/contractor fails to deliver the stores, or any installment thereof, within the period fixed for such delivery in the schedule or at any time repudiates the contract before the expiry of such periods, the Purchaser may, without prejudice to any other right or remedy available to him to recover damages for breach of the contract:-

- 3.12.1** Recover from the Supplier/Contractor as agreed, liquidated damages including administrative expenses and not by way of penalty, While granting an extension of the delivery period, where the delivery of stores or any installment thereof is accepted after expiry of the original delivery period, the Purchaser shall recover from the contractor, as agreed, the LD a sum equivalent to 0.5 (Half) percent of the prices of any portion of stores delivered late, for each week or part thereof of delay. The total damages shall not exceed 10 (Ten) percent of the value of delayed goods/Units. **If the delayed supply/unit found vital for the functioning of the entire supply/unit, then the entire unit/Supply shall consider as delayed supply/ unit for the calculation of LD. The LD shall not exceed the amount stipulated in the contract. After a full period of extension, termination of the contract will be considered by the Organization.**
- 3.12.2** Purchase or authorize the purchase elsewhere on the account and at the risk of the supplier/contractor, of the stores not delivered/SITC/SETC/DSETC not carried out or other of a similar description (where stores/ SITC/SETC/DSETC exactly complying with the particulars are not in the opinion of the purchaser, which shall be final, readily procurable) by serving prior notice to the supplier/contractor without cancelling the contract in respect of the installment not yet due for delivery; or
- 3.12.3** Cancel the contract or a portion thereof by serving prior notice to the supplier/contractor and if so desired purchase or authorize the purchase of the stores not delivered /SITC/SETC/DSETC not carried out or others of a similar description (where stores not delivered/ SITC/SETC/DSETC not carried out, exactly complying with particulars are not in the opinion of the purchaser, which shall be final, readily procurable) at the risk and cost of the supplier/contractor. If the supplier/contractor had defaulted in the performance of the original contract, the purchaser shall have the right to ignore his tender for risk purchase even though the lowest. Where the contract is terminated at the risk and cost of the firm under the provisions of this clause, it shall be at the discretion of the purchaser to exercise his discretion to collect or not, the Security Deposit from the firm on whom the contract is placed, at the risk and expense of the defaulted firm.

- 3.12.4** Where action is taken under sub-clause 3.12.2 or sub-clause 3.12.3 above the supplier/contractor shall be liable for any loss which the purchaser may sustain on that account, provided the purchase or if there is an agreement to purchase, such agreement is made in case of failure to deliver the stores, within 6 months from the date of such failure and in case of repudiation of contract the supplier/contractor shall not be entitled to any gain on such the entire discretion of the purchaser to serve a notice of such purchase on the contractor.
- 3.12.5** It may further be noted that clause 3.12.1 above provides for recovery of liquidated damages on the cost of the contract price of delayed supplies at the rate of 1/2% (Half Percent) of the contract price of the delayed unit or effective delay occurred unit (even if it has been supplied) for per week for such delay or part thereof upto a ceiling of 10% of the contract price of delayed supplies/SITC/SETC/DSETC **If the delayed supply/unit found vital for the functioning of the entire supply/unit, then the entire unit/Supply shall consider as delayed supply/ unit for the calculation of LD.** Liquidated damages for delay in supplies/SITC/SETC/DSETC thus accrued will be recovered by the Paying Authority on instruction as specified in the supply order, from the bill for payment of the cost of material/works submitted by the contractor in accordance with terms of supply order on instruction from Purchaser regarding liquidated damages amount.
- 3.12.6** Notwithstanding anything stated above, equipment and materials will be deemed to have been delivered/SITC/SETC/DSETC will be deemed to have been carried out only when all its components/parts are also delivered. If certain components of stores are not delivered in time/SITC/SETC/DSETC not carried out in time, the stores/SITC/SETC/DSETC will be considered as delayed until such time all the missing parts are also delivered.

3.13 INSPECTING/TESTING OF MATERIAL

The inspection of material will be carried out by the authority specified in the purchase order. The material will be accepted only after the same has been found satisfactory after inspection and duly marked and sealed by the Inspection Authority.

- 3.13.1** The supplier/contractor shall ensure that the material to be supplied against this order shall be individually inspected, tested and analyzed in terms of the specifications attached to the tender and the relevant codes and practices specified therein by expression or implication. Necessary test reports shall be provided as required.
- 3.13.2** The supplier/contractor should make available to the organization and any other individual/agency authorized by the Organization for the purpose of inspection all its records and results in respect of inspection , test and analysis conducted by it as part of their manufacturing and testing operation under the applicable codes and practices specified by expression or implication in the tender.
- 3.13.3** Inspection tests and analysis shall be carried out/conducted at the supplier's/ contractor's works by the authorized representative of the organization and the cost of such inspection

tests and analysis including the cost of to and fro air fare and accommodation and cash allowances payable shall be borne by the organization.

- 3.13.4** The Contractor shall provide and deliver free of charge for tests/analysis by an independent authority at any such place or places as the organization or its authorized inspector may reasonably require such raw material (s) used or intended to be used for the contracted work by the Contractor as the organization/Inspector shall consider necessary. **The cost of such tests/analysis shall be borne by the Contractor.**
- 3.13.5** This organization shall be entitled at all times, whether prior to, during or after the completion of inspection by itself and/or through inspectors appointed by the Organization at the Organizations' cost, to inspect, test and/or analyses and/or to direct the Supplier/Contractor in all respect of any store(s) or materials processes used or proposed to be used in the fabrication of the product of any of them. The said inspection, tests and analysis as far as required, is to be conducted in the presence of the inspectors. The supplier/contractor shall ensure that the inspecting personnel referred to above are given free access to all the required places and information connected with their work, besides working facilities to carry out their function.
- 3.13.6** Should the supplier/contractor fail to comply with any of the provisions aforesaid relating to inspection, testing and /analysis the organization shall be entitled by itself and/or through inspectors to conduct or have conducted the inspection, test and/or analysis at the risk and expense of the supplier/contractor in all respects.
- 3.13.7** No rejected raw materials shall be used for the contracted work or re-tendered for inspection and/or test except with the prior permission of concerned Inspectors.
- 3.13.8** Unless otherwise specifically authorized by the organization in writing, the supplier/contractor shall not ship or dispatch for shipment under the contract entered into, any material which has not been properly inspected/tested marked and in respect of which a certificate of quality has not been issued or signed by the inspectors.
- 3.13.9** In addition to the general conditions of the inspection stated above, the supplier/ contractor shall also satisfy all the specific conditions of inspection as enumerated in the specification attached.
- 3.13.10** In addition to inspector(s) the organization shall be entitled to nominate, depute or designate a representative to be stationed at the supplier's/contractor's factory in order to supervise and/or coordinate operations related to the contract. In the event of there being more than one factory involved in the work entrusted to the supplier/contractor, the organization shall be entitled to nominate/depute or appoint such representative(s) as necessary in respect of each such factory.
- 3.13.11** The supplier/contractor shall ensure that the material to be supplied against this order shall be individually inspected, tested and analyzed in terms of the specifications attached to the tender and the relevant codes and practices specified therein by expression or implication. Necessary test reports shall be provided as required.

- 3.13.12** The posting of such a representative by the organization or his actions in any manner does not absolve the supplier/contractor of any liability, and/or responsibility under this contract. The representative's posting shall be treated as advisory to the organization.
- 3.13.13** For false calls for the cases where material is rejected on inspection, the supplier/ Contractor will bear the actual cost of inspection incurred/suffered by the organization.
- 3.13.14** Place of inspections specified in supply order will not be changed without written confirmation from the Purchase Authority.

3.14 SUB-STANDARD MATERIAL/REPLACEMENT OF REJECTED GOODS

- 3.14.1** If the organization finds that MATERIAL supplied are not of the correct quality or not according to specification required or otherwise not satisfactory owing to any reason of which the organization will be the sole judge, the organization will be entitled to reject materials, cancel the contract and buy its requirement in the open market at the risk and cost of supplier, reserving always to itself the right to forfeit the security deposit/performance bonds placed by the supplier for the due fulfilment of the contract.
- 3.14.2** Rejected goods should be removed and replaced within 14 days of the date of communication of rejection.

3.15 SUBLETTING AND ASSIGNMENT

The contractor shall not save with the previous consent in writing of the purchase Authority, sublet, transfer or assign the contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever, provided nevertheless that any such consent shall not relieve the contractor from any obligation, duty or responsibility under the contract.

3.16 INTER/CHANGEABILITY OF PARTS

- 3.16.1** If against any item it becomes necessary to supply spare parts other than specified, the supplier/contractor shall be required to give the following certificate to the purchaser before arranging supply of spare parts bearing different parts numbers. If there is any obvious typographical or clerical error in the part number and /or description of any item, the supplier/contractor will supply the correct part. The aforesaid certificate should be supplied in such cases also. The supplier will furnish this certificate in either case, to the paying authority. No formal amendment is necessary in such cases.
- 3.16.2** “The changed part numbers are an exact replacement of parts ordered and are suitable for and will fit in equipment/machines and the existing fittings for which they are intended without in any way affecting the efficiency and quality of performance of the equipment/machines.”
- 3.16.3** If however, the substitute spare part is not a bare replacement of the part originally ordered and involves a purchase of other items in addition, as would be the case when

a kit is offered instead of one small item(s) forming part of the kit, the supply of the kit would be subject to the following conditions:-

- 3.16.3.1 The supply of the kit will be accompanied with a certificate that the manufacturer has definitely stopped supply of the spare parts but supplying only a kit.
- 3.16.3.2 The spares will not be supplied as kit unless prior acceptance of the same has been obtained from the purchaser.
- 3.16.3.3 In case the supply of the kit involves any change in the price and if so, the revised price would be stated for scrutiny and incorporation of the same in the supply order, if found acceptable.
- 3.17 Provided further that if any part numbers are declared by the purchaser to be unsuitable to the machines for which they have been supplied within 60 days from the date of arrival of the stores at site, the supplier/contractor will take them back at their own cost and expense.

3.18 BREAKAGE/SHORTAGE

- 3.18.1 Claim in respect of breakage/shortages, if any, shall be preferred on the supplier/contractor within thirty days from the date of receipt of stores at destination by Ultimate consignee which shall be replaced/made good by the supplier/contractor at his own cost.
- 3.18.2 All risk or loss or damage to the material shall be upon the supplier/contractor till it is delivered in accordance with the terms and conditions of the supply order.

3.19 DESIGNS, PATENTS AND ROYALTIES

If any material used or methods or processes practiced or employed in the manufacture of items to confirm with the requirement of the contract is/are covered by a patent(s) in respect of which contractor is not licensed, the contractor shall before using the material, method or process, as the case may be, obtain such license(s) and pay such royalty/royalties and license fee(s) as may be necessary. The contractor shall keep the organization indemnified from and against any and all claims, actions demand and proceedings whatsoever brought or made against the organization on the basis of any patent or infringement thereof claimed or otherwise relating to and arising from any method or process employed or matter or thing done to or in connection with any work executed by the contractor. The contractor shall at their own risk and expense defend any suit for infringement of patent or like suits brought against the organization (whether with or without the contractor being a party thereto and shall pay damages and costs awarded in such suit and keep the organization indemnified from and against all consequence thereof.)

3.20 FORCE MAJEURE

3.20.1 If any time during the continuance of the contract the performance in whole or in part by the Successful Bidder shall be prevented or delayed by reason of any war, hostility acts of the public enemy, civil commotion, sabotage, fire, floods, explosions, epidemics, Quarantine restriction, strikes, lock-outs or acts of god, **(but not including negligence or wrong-doing, predictable/seasonal rain)** herein after refer to as events and provided notice of happenings of any such eventuality is given by the successful Bidder in writing within 07 days from the date of occurrence thereof **(and it cannot be claimed ex-post facto)**, the purchaser shall by reason of such event, neither cancel this order nor shall claim for damages against the contractor in respect of such non-performance or delay in performance and delivery shall be resumed as soon as practicable after such events have come to an end or ceased to exist. However, if such event continues for a period exceeding 90 days, either party may at its option terminate the contract by giving notice to the other party.

3.20.2 If the deliveries are suspended by force majeure conditions lasting for more than 90 days, the organization have the option of cancelling this contract in whole or part at its discretion without any liability on its part of the Purchaser,

3.21 LANGUAGE/TERMINOLOGY

The supplier/contractor shall ensure the language/terminology/description of goods used in supply order/bill of lading/Invoice any other documents dispatched by the supplier is verbatim in English.

3.22 FALL CLAUSE

3.22.1 The price for the stores/services/works under the contract/Supply order by the contractor/Supplier shall in no event exceed the lowest price at which supplier/contractor or his agent/principal/dealer as the case may be, sells the stores /services/works or offers to sell stores/services/works of identical description to any persons/organizations including the purchaser or any department of the Central Govt. or any Dept. of State Govt. or any Statutory undertaking of the Central or State Govt., as the case may be, during the currency of the contract supply/work order.

3.22.2 If at any time, during the said period, the contractor/supplier or his agent/principal/dealer as the case may be, reduce the sales price, sells or offers to sell such stores/services/works to any persons/organizations including the purchaser or any Dept. of Central Govt. of any Dept. of a State Govt. or any statutory undertaking of the Central or State Govt. as the case may be, at a price lower than the price chargeable under the contract/supply order, he shall forthwith notify such reduction or sale or offer of sale to the Purchase Authority who has issued this contract/supply order and price payable under the contract/supply order for the stores supplied/services rendered/works carried out after the date of coming into force of such reduction or sale or offer of Sale shall stand correspondingly reduced. The above stipulation will however, not apply to :--

a) Exports by the contractor/supplier; or

- b) Sale of goods as original equipment at prices lower than the prices charged for normal replacement.

3.22.3 The contractor/supplier shall furnish the following certificate to the concerned Purchaser.

"I/We certify that there has been no reduction in sale price of the stores/services of description identical to the stores/services supplied to PRASAR BHARATI (India's Public Service Broadcaster), O/o ADG(E)(SZ), AIR and DD, Swamy Sivananda Salai , Chennai under the contract/supply order here in and such stores/services have not been offered/sold by me/us to any person organization including the purchaser or any Dept.of Central Govt. or any Dept. of a State Govt. or any statutory Undertaking of the Central or State Govt. as the case may be upto the date of bill during the currency of the supply order contract whichever is later at a price lower than the price charged to the organization under the contract/supply order except for quantity of stores categories under sub-clauses (a) and (b) of sub para (3.22.2) above, details of which are as follows....."

In case, if the price charged by our firm is more, Prasar Bharati will have the right to recover the excess charged amount from the subsequent/unpaid bill of the supplier.

3.23 PACKING & MARKING

3.23.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. Each package shall have a detailed packing list in duplicate indicating:

- 3.23.1.1 Supply order number & date
- 3.23.1.2 Brief description of consignment
- 3.23.1.3 Name and address of the consignee.
- 3.23.1.4 Name and address of the Suppliers.
- 3.23.1.5 Item-wise nomenclature and part number and given reference with quantities to assembly drawing.
- 3.23.1.6 Tag number for all items contained in the package.
- 3.23.1.7 Gross weight and outer dimension of the package.
- 3.23.1.8 Packing list package-wise package marks and numbers
- 3.23.1.9 Any other requirement relevant to the contract
- 3.23.2** Another copy of the packing list shall be put in a waterproof envelope and fastened securely to the outside of the Package.

3.23.3 Shipping Of Documents:

Invoice showing value item-wise as per supply order for customs purposes, in triplicate drawn in the name of **The Asst Director Engineer/I.O, All India Radio**, and duly manually signed by the supplier or their authorised representative.

- 3.23.3.1 Certificate of test inspection from manufacturer/supplier.
- 3.23.3.2 Certificate of recent manufacture.

3.24 INSURANCE :

3.24.1 The Successful Bidder shall insure entire tower items during transit, storage, installation, testing and commissioning until handing over the consignee against losses, damages due to fire, earthquake, war, flood/theft etc, no claim will be admissible on this account. The Bidder shall take insurance for his men while working at the Prasar Bharati site against any accident, death, etc. Similarly equipment's, instruments, tools etc. belonging to the Bidder shall be insured against damage, loss, theft etc. All the charges for such insurance shall be borne by the Bidder. Insurance documents should be submitted to consignee before commencement of work.

3.25 SHORT/DAMAGE/DEFECTIVE/NON-RECEIPT OF MATERIAL

The supplier is responsible for safe arrival of the material upto destination. In case, there find any shortage/breakage of material, the supplier will make good the deficiency at the earliest.

3.26 PROGRESS OF MANUFACTURING OF ITEMS

From the date of receipt of order the manufacturer will send a report on monthly basis to the purchase Authority about the progress on manufacturing of item(s) ordered from him. The monthly progress report will be sent on a regular basis till completion of the entire supply as per delivery date indicated in supply order.

3.27 ARBITRATION

3.27.1 If any dispute, difference, question or disagreement shall at any time, hereafter arise, between the parties hereto or the respective representatives or assignees in connection with or arising out of the contract or in respect of meaning of specification, design, drawings, estimates, schedules, Appendix(s), orders, instructions, the construction, interpretation of this agreement, application of provisions thereof or anything hereunder contained or arising hereunder or as to the rights, liabilities or duties of the said parties hereunder or any matter whatsoever incidental to this contract or otherwise concerning the works of execution or failure to execute the same whether during the progress of work or stipulated/extended periods or before or after the completion or abandonment thereof, it shall be referred to the sole arbitration of the person appointed by the Chief Executive Officer, Prasar Bharati .

3.27.2 If an arbitrator to whom the matter is referred dies or refuses to act or resigns for any reason from the position of arbitrator, it shall be lawful for the Chief Executive Officer, Prasar Bharati to appoint another person to act as arbitrator in the manner aforesaid. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor if both the parties consent to Chief Executive Officer, Prasar Bharati to this effect failing which the arbitrator will be entitled to proceed de-novo.

3.27.3 It is a further term of this contract that no person other than the person appointed by the Chief Executive Officer, Prasar Bharati as aforesaid shall act as arbitrator and that,

if for any reason that is not possible, the matter is not to be referred to the arbitration at all.

- 3.27.4** The arbitrator(s) may from time to time, with the written consent of all the parties to the contract, enlarge the time for making and publishing the award.
- 3.27.5** It is a term of the contract that the party invoking arbitration shall specify the dispute or disputes to be referred to arbitration under the clause.
- 3.27.6** It is also the term of the contract that the contractor shall not stop the work under this contract and work shall continue as expected to continue whether the arbitration proceedings have commenced or not.
- 3.27.7** The arbitrator shall give reasoned award in respect of each dispute or difference referred to him. The award as aforesaid shall be final and binding on all the parties to the contract in accordance with the Indian law.
- 3.27.8** The Venue of the arbitration shall be at Chennai, TN., subject to as aforesaid, the provision of the Indian Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactments thereof and rules made there under and for the time being in force shall apply to the arbitration proceedings under this clause.

3.28 COMPLIANCE OF SPECIFICATIONS

- 3.28.1** The successful Bidder shall execute the whole and every part of the work in the most substantial and workman like manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also conform exactly, fully and faithfully to the designs, drawings and instructions in writing in respect of the work.
- 3.28.2** The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and special conditions in preference to General Conditions”.
- 3.28.3** In the case of discrepancy between the schedule of Quantities, the Specifications and/or the Drawings, the following order of preference shall be observed: -
 - 3.28.3.1** Description of Schedule of Quantities.
 - 3.28.3.2** Particular Specification and Special Condition, if any.
 - 3.28.3.3** Drawings.
 - 3.28.3.4** AIR/DD Specifications.
 - 3.28.3.5** Indian Standard Specifications of B.I.S.
- 3.28.4** If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor.

3.28.5 Any error in description, quantity or rate in Schedule of Quantities or any omission therefrom shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract

3.29 .COMPLIANCE TO MINIMUM WAGE ACT

The Bidder shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, amended from time to time and rules framed thereunder and other labour laws affecting contract labour that may be brought into force from time to time.

3.30 *APPLICABLE LAW

This contract, including all matters connected with this contract, shall be governed by the Indian laws, both substantive and procedural, for the time being in force and shall be subject to the exclusive jurisdiction of Indian Courts.

* To be included in an international contract.

3.31 INTEGRITY PACT (Applicable for the Tender costing more than 2 Crores)

3.31.1 Signing of Integrity Pact (IP) is mandatory for every Bidder participating in this Bid(Tender value more than 2 Cr). A copy of the IP is enclosed (Form-12), which may be deemed to have been signed by Prasar Bharati. The Bidder(s) and Prasar Bharati shall be bound by the provisions of IP in case any complaint relating to the tender is found substantiated. **The IP shall be executed on a plain paper and duly signed on each page by the same signatory who signs the bid document. Any bid not accompanied by duly signed IP by the Bidder would be rejected.** Prasar Bharati has appointed the Independent External Monitor (IEM) nominated by Central Vigilance Commission (CVC). Contact detail of IEM is given in Form -12. Any tender related complaint, for tenders covered under Integrity Pact having value of Rs.2 (Two) crore and above, may be addressed to the Independent External Monitor (IEM).

3.31.2 VIOLATIONS & CONSEQUENCES:

3.31.2.1 If a Bidder commits a violation of its Commitments and Obligations under the Integrity Pact Programme during bidding process, their entire Earnest Money Deposit/ Bid Security, would be forfeited and in addition, they would be banned from the Prasar Bharati business in future.

3.31.2.2 In case of violation of the Integrity pact by Bidder after award of the Contract, Prasar Bharati shall be entitled to terminate the Contract. Further, Prasar Bharati would forfeit the security deposits/ Contract Performance Bank Guarantee. In case it is found that the Bidder has made any frivolous, untrue and misleading allegations against Prasar Bharati or its associates, Prasar Bharati reserves its right to initiate criminal proceedings against the violating Bidder and may also impose exemplary cost for the same

APPENDIX-C

4

BID EVALUATION CRITERIA

	SALIENT FEATURES	BIDDERS CONFIRMATION
4.1.1	Open Tender No.	No.J-11011/81/2026-PURCHASE-ADG(E)-(SZ) Date: 04.09.2026
4.1.2	Single Stage Two Bid System	Two Bid System
4.1.3	Tender Processing Fee	As per Para 1.2.6 of Bid Data Sheet (BDS) and Para 2.1.7 of “Instructions to Bidder”
4.1.4	Validity Period of Bid	120 days from the date of opening i.e. up to and inclusive of date of opening.
4.1.5	Bid Security	As per clause 1.2.7 of Bid Data Sheet (BDS) and Para 2.1.13 of “Invitation to Bid”.
4.1.6	Performance Security	Would be required on placement of purchase order i.e. 3% of the ordered value as applicable OM issued by MOF dated 30.12.2021 or it is contingent based on revised OM if any at the time of placing order and shall be valid beyond 60 days from the date of expiry of guarantee/warranty with claim period up to one year from the date of expiry of guarantee/warranty.
4.1.7	Delivery Period	120 Days
4.1.8	Last date of submission of Bid clarification	09.09.2026
4.1.9	Time & Date of Submission of Tender	25.09.2026,15:30 Hrs
4.1.10	Opening date of technical bid	25.09.2026,16:00 Hrs
4.1.11	Opening date of price bid	___Intimate later___
4.1.12	Evaluation Methodology	As per Para 1.20to Para 1.23 and Para 4.2

Note: -

- A. Latest updates regarding this tender can be accessed at Web-Site
<https://prasarbharati.eproc.in>, <https://prasarbharati.gov.in>, and <https://eprocure.gov.in>.

B. Pre bid conference will be held in : All India Radio, Mahabubnagar

4.2. VITAL COMMERCIAL CRITERIA FOR ACCEPTANCE

4.2.1 The following vital commercial conditions should be strictly complied with failing which the bid will not be considered.

4.2.2 Bid should be from actual manufacturers, public sector undertakings, supply Houses/representatives/distributors/dealers/agents authorised by the Principals.

4.2.3 After opening of the price bids, if the Lowest Bid(L-1) rate is found substantially higher than the updated cost estimate or available budget, Prasar Bharati will cancel the procurement process/ reject all Bids; re-Tender will be invited afresh after detailed scrutiny of the estimated cost.

4.2.4 If the quoted rate for Bid, is found considerably lower than the estimated rates, it will be considered as abnormally low Bid; in such cases, Prasarbharati may seek written clarification from the Bidder, including detailed price analyses of its bid price in relation to scope, schedule, allocation of risks and responsibilities, and any other requirements of the bid's document. If, after evaluating the price analyses, Prasar Bharati determines that the bidder has substantially failed to demonstrate its capability to deliver the contract at the offered price, the Prasar Bharati may reject the bid/proposal.

4.2.5 SUBMISSION OF BID BOND/BANK GUARANTEE ALONG WITH BID

- a) In case of domestic bidders, tender must be accompanied with Earnest Money Deposit in the form of either a Bank Draft/FDR Payable to **PRASAR BHARATI CORPORATION ADDL DIRECTOR GENERAL payable at CHENNAI** or a Bank Guarantee from an Indian Scheduled Commercial Bank with the tender document. Bank Guarantee by domestic bidders will be given on non-judicial stamp paper as per stamp duty act applicable at New Delhi.
- b) The amount of Earnest Money Deposit should be as per the Notice Inviting Tender and it shall be as per Para 1.2.7 and Para 2.21; regarding Submission of Security Deposit cum Performance Bank Guarantee for execution of contract as well as for satisfactory performance of equipment during warranty period by the successful bidders; Acceptance of Failure and Termination Clause No.3.12 of Tender document; Acceptance of Warranty and Guarantee Clause No.3.9 of Tender document; Acceptance of jurisdiction clause No. 3.27 and 3.30 of tender document.

The Bidders to quote firm prices fully in Indian currency only.

4.3 CRITERIA FOR LOADING OF BIDS

The following criteria will be adopted for evaluation of bid:-

- 4.3.1 For delivery /completion periods quoted longer than that specified in the bid document, the quoted price shall be loaded 1/2% per extra week or part thereof subject to a maximum of 5% of the quoted price. Offer with delivery/completion period longer than 10 week beyond the stipulated delivery completion period will be rejected.

- 4.3.2 Bidders will not indicate a separate discount. Discount if any should be merged in the rates against the quoted items. Discount, if any, indicated separately will not be taken into account for bid evaluation purposes.

4.4 VITAL TECHNICAL CRITERIA FOR ACCEPTANCE OF BIDS

- 4.4.1 Quotation in original must be from actual manufacturers, public sector undertakings, supply houses/representatives/distributors/dealers/agents authorized by the Principals.
- 4.4.2 In case the bidder is an authorized dealer/supply house, he should name the original manufacturer. Bidder should furnish a warranty to quality from the manufacturer and also furnish a certificate from the manufacturer that the bidder can quote items of the manufacturer directly. Offers not complying with these requirements will be rejected, without any notice/back reference.
- 4.4.3 Past performance report of similar items earlier supplied to this Organization will be taken into consideration while evaluating this bid. The bid shall be rejected, if the past performance of the similar item earlier supplied to the Organization is found to be unsatisfactory.

4.5 PREFERENCE TO MAKE IN INDIA

The policy of the Govt. of India to encourage “Make in India” and promote manufacturing and production of goods and services in India as per the revised “Public Procurement (Preference to Make in India), Order 2017”, circulated by the Department of Promotion of Industry and Internal trade, Ministry of Commerce & Industry, Govt. Of India vide Order No. P-45021/2/2017-PP (BE-II dated 04.06.2020 will be applicable for this tender.

4.5.1 Definitions: For the purpose of this Tender

- 1 ‘**Local content**’ means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.
- 2 ‘**Class-I local supplier**’ means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under this Tender.
- 3 ‘**Class-II local supplier**’ means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this Tender.
- 4 ‘**Non – Local supplier**’ means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than or equal to 20%, as defined under this Order.
- 5 ‘**L1**’ means the lowest tender or lowest bid received in response to this tender.
- 6 ‘**Margin or purchase preference**’ means the maximum extent to which the price quoted by a “Class-I local supplier” may be above the L1 for the purpose of purchase preference. For being eligible for purchase preference under this clause, the Margin of purchase preference shall be 20% (i.e. L1 + 20% band).

4.5.2 Eligibility of ‘Class-I local supplier’/ ‘Class-II local supplier’ / ‘Non-local suppliers’ for this tender:

Only ‘Class-I local supplier’ and ‘Class-II local supplier’ as defined under this tender shall be eligible to bid in procurements undertaken by procuring entities, except when global Tender enquiry has been issued, In global Tender enquiries, ‘Non-local suppliers’ shall also be eligible to bid along with ‘Class-I local supplier’ and ‘Class-II local supplier’.

4.5.3 Purchase Preference

Purchase preference shall be given to “class-I local supplier” for the purpose of this tender in the manner specified here under.

4.5.4 ~~For the procurement of stores/works that are divisible~~The ‘Class-I local supplier’ shall get purchase preference over ‘Class-II local supplier’ as well as Non-local supplier’, as per following procedure:

- ~~1 Among all qualified bids, the lowest bid will be termed as L1. If L1 is ‘Class-I local supplier’, the contract for full quantity will be awarded to L1.~~
1. If L1 bid is not a ‘Class-I local supplier’, 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the ‘Class-I local supplier’ will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier’s quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such ‘Class-I local supplier’ subject to matching the L1 price. In case such lowest eligible ‘Class-I local supplier’ fails to match the L1 price or accepts less than the offered quantity, the next higher ‘Class-I local supplier’ within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local suppliers, then such balance quantity may also be ordered on the L1 bidder.

4.5.5 For the procurement of Dismantling, Transportation and Erection of 45m high SS Tower The ‘Class-I local supplier’ shall get purchase preference over ‘Class-II local supplier’ as well as ‘Non-local supplier’ as per following procedure.

- 1 Among all qualified bids, the lowest bid will be termed as L1. If L1 is ‘Class-I local supplier’, the contract will be awarded to L1.
- 2 If L1 is not ‘Class-I local supplier’, the lowest bidder among the ‘Class-I local supplier’, will be invited to match the L1 price subject to Class-I local supplier’s quoted price falling within the margin of purchase preference, and the contract shall be awarded to such ‘Class-I local supplier’ subject to matching the L1 price.
2. In case such lowest eligible ‘Class-I local supplier’ fails to match the L1 price, the ‘Class-I local supplier’ with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the ‘Class-I local supplier’ within the margin or purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.

4.5.6 “Class-II local supplier” will not get purchase preference.

4.5.7 Minimum Local Content: The local content requirement to categorize a supplier as “Class-I local supplier” / “Class-II local supplier” / “Non-local supplier” shall be as defined in the Para “4.5.1” above. No change is permissible on this account.

4.5.8 Margin of Purchase Preference: The margin of purchase preference shall be 20%. For being eligible for purchase preference under this clause, the Margin of purchase preference shall be 20% (i.e. L1 + 20% band)

4.5.9 Verification of local content:

1. The ‘Class-I local supplier’ / “Class-II local supplier” at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for ‘Class-I local supplier’ / ‘Class-II local supplier’, as the case may be. They shall also give details of the location(s) at which the local value addition is made.
2. Prasar Bharati may constitute committees with internal and external experts for independent verification of self-declarations and auditor’s / accountant’s certificates on random basis and in the case of complaints.
3. False declarations will be in breach of the Code of Integrity under rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.
4. A supplier who has been debarred by any procuring entity for violation of this Order shall not be eligible for preference under this tender for procurement by any other procuring entity for the duration of the debarment. The debarment for such other procuring entities shall take effect prospectively from the date on which it comes to the notice of other procurement entities.

5 DESCRIPTION OF STORES AND TECHNICAL SPECIFICATIONS

Technical Specifications for Dismantling, Transportation, Design and Construction of Foundation, Erection of 45 m High Self-Supporting Lattice Steel Tower at Akashvani Mahabubnagar as per specification

SECTION -I

1. Design of tower foundation and dismantling of 45m High SS Tower available at Akashvani Nellore, transportation of dismantled tower structure to Akashvani Mahabubnagar and erection of tower at Akashvani Mahabubnagar.

2. SCOPE OF WORK

The scope of work includes dismantling, transportation of the dismantled tower structure ~~to the site~~ from Akashvani Nellore (A.P.) to Akashvani Mahabubnagar (Telangana) (450 km approx.), design and construction of foundation, Erection of 45m SS Tower as per drawings & specification, mounting of 4 bay Antenna on the top of the tower, laying of RF cable, fixing of AOL, Lightening Arrester, Earthing, electrical work, painting, commissioning – complete in all respects as per specification.

3. Description Of Works

Sl.No.	Description of work
1	Preparation and submission of Design drawing of tower foundation approved by IIT/NIT/SERC etc. Excavation of earth & casting of tower foundation including supply of raw material, hardware, labour, site clearance (as per AIR Specifications). Soil test report enclosed for bidder's reference.
2	Dismantling of the existing 45m high self-supporting tower at Akashvani Nellore Transmitter site, including all tower related materials such as RF Cable, antenna ladder, anchor bolts, hand rail, galvanized fasteners, cable tray, AOL etc., marking of members including photography and video (Nellore tower Photo is attached).
3	Transportation of the dismantled 45m SS Tower structure material from Akashvani Nellore including all tower related materials such as ladder, anchor bolts, hand rail, galvanized fasteners, cable tray etc to Akashvani Mahabubnagar site (450 Km approx.),also dismantled Antenna to be transported to Akashvani Mahabubnagar without any transit loss damage to the materials. Dismantled 1½" RF cable to be properly rolled and kept in safe place as per site Engineer instructions at Akashvani Nellore. Transportation of 3¼" RF cable from Akashvani Warangal safely to Akashvani

	Mahabubnagar including loading & unloading (250 km approx.).
4	Erection of the dismantled 45m SS tower, strictly as per the GA drawing. Missing/Damaged/Rusted nuts and bolts, tower members shall be replaced by the vendor. Such replaced members, bolts, nuts etc should be shown to Installation Officer, before fixing. Main frames/ Ties/ Brazing which are not usable should be replaced. All tower accessories including Aviation Obstruction Lights with required armored cables and junction box etc. shall be erected. Verticality to be maintained as per specification and a certificate to be obtained for satisfactory performance of the above job, by the third party i.e. any Govt institutions.
5(a)	Fixing of dismantled class C seamless GI pipe at the top of tower for mounting of 4 bay Antenna including material i.e. clamps. Vendor shall fabricate, paint and install the support structure for installing this antenna on SS tower as per the design provided in this tender. Then mount Akashvani FM antenna to this support structure. The drawing and tentative quantity of material required for this support are enclosed.
5(b)	The 3 $\frac{1}{8}$ " RF feeder cables pertaining to antenna shall be properly clamped along the ladder. The cables shall be routed on Horizontal tray. The dismantled horizontal tray and GI pipes shall be used for erection of tray, additional material required for the tray will be supplied by Dept. The GI poles shall be firmly fixed to the ground to hold the channels. Horizontal tray shall be fixed firmly on GI poles at 10 feet height, between the tower and transmitter hall as per site condition.
5(c)	Supply of dual type AOL lamp and 2.5 Sq mm 3 core armoured power cable of reputed make and fixing at the top of the tower and the supplied power cable shall be drawn up to the lamp. Lightning arrester shall be mounted on top of the tower and safely earthed separately through insulated copper strip, as per specification.
5(d)	Four number earthing to be provided for the four legs of the tower. All above works shall be done under supervision of officer designated by this office and a certificate to be taken for satisfactory performance completion of the above job.
6	Supply of Paint and labour charges for Painting the Tower as per specification given. Paint should be shown to the Installation Officer and painting works should be done under supervision of officer designated by this office and a certificate to be taken for satisfactory performance completion of the above job.

4.FOUNDATION

i. The tenderers are advised to inspect the tower site and acquainted himself with the

local terrain and site conditions, soil conditions, nature of sub soil, water table and its seasonal variations, area contour etc and to make such local enquiries, as may be necessary for any data requirement by him, before quoting his rates for foundation of the tower.

ii. The RCC foundation, tie beams etc shall be designed and constructed in accordance with IS :11233 amended to date, IS: 456 amended to date and other applicable codes. The minimum grade of concrete to be used shall be M20.

iii. ~~The purpose of this, the tenderer shall quote the rates (in the commercial bid) on the basis of 8.2 MT/Sq.m. soil bearing Capacity (SBC) below 3m depth.~~

iv. Weight of the Nellore Tower is 11 Ton (Approximately)

NOTE : 45m SS Tower Foundation drawing attached is for refence purpose only. Tenderers are required to submit ~~approved~~ tower foundation design drawing approved by the NIT/IIT/SERC testifying the soundness and safety of design foundation etc.

5) TOWER LOADING DETAILS:

The tower shall ~~be designed to~~ take self-load and wind load as per details given below. Ice loading shall also be taken into considerations per the requirements, if required. These are in addition to self-loading of tower.

S.No	Description	Net weight kg	Wind load (kg)	Remarks
1	FM side Mount Antenna 4 bay (Pole Type)	450	900 @ 198 Km/hr. without ice	Weight & wind loading due to support column & mounting accessories not included.
2	3 1/8" RF cable for FM Antenna (Approx,3.5 Kg/m)			2 Nos
3	3 Core armoured 2.5 sq.mm Power supply cable			1 No
4	Solid state Aviation obstruction light cable 2.5 Sq.mm.			1 No

6. TECHNICAL SPECIFICATION FOR TOWER ERECTION:

a) **Fasteners, Bolts, Nuts & Washers:** The tower members and other structural components shall be connected / assembled by means of bolts & nuts with locking nuts or spring washers.

(i) All bolts and nuts shall conform to IS: 1367 — 1979 and dimension confirming to

IS: 6639-1972. All bolt and nuts shall be hot dip galvanized and shall have hexagonal head and nuts. the heads being forged out of the solid, truly concentric and square the sank, which must be perfectly straight.

(ii) The bolts shall be 16mm dia and of property class 5.6 as specified in IS: 1367 (Part — III) 1979 and matching nut property class 5.0 as specified in IS: 1367 (Part-VI) 1980. The bolts and nuts shall be procured from reputed manufacturers such as G K W UNBRACO or TVS.

(iii) Bolts upto M16 and having length upto 10 times the diameter of the bolt should be manufactured by cold forging and thread rolling process to obtain good and reliable mechanical property and effective dimensional control. The shear strength of bolts shall be in accordance of IS: 800 — 1984.

(iv) All bolts shall be threaded to take the full depth of nuts and to permit firm gripping of the members, but not further. It shall be ensured that the threaded portion of each bolt protrudes not less than 3mm and not more than 8mm when fully tightened. All nuts shall fit and tight to the point where the shank of the bolt connects to the head.

(v) Flat and tapered washers shall be provided wherever necessary spring washers shall be provided for insertion under all nuts, these washers shall be of steel electro galvanized positive lock type and 3.5mm in thickness for 16mm dia bolts and 4.5 for 24mm bolt.

(vi) All bolts and nuts shall be galvanized by high temperature hot dip galvanizing. The galvanized coating should be uniform and its value should be between 85 micron to 115 micron to be checked on random sample basis on threaded portion as well higher thickness of galvanized coating shall also consider based life of tower as 50 years in accordance with code. The galvanized coating shall be checked by metallographic method.

b) Tower Erection:

(i) The erection of various components of tower shall be in accordance with the approved drawings.

(ii) The erection of various components shall conform to IS: 800-1984 except wherein after modified.

(iii) During erection, the steel work shall be securely bolted or otherwise fastened and when necessary, temporarily braced to provide for all load to be carried by the structure during erection including those due to erection equipment and its operation.

(iv) Erection shall proceed panel-by-panel. Verticality of the tower shall be checked after erection of first panel and subsequently after each panel.

(v) If a panel is to be left incomplete, it shall be ensured by erection of temporary bracing and properly secured to withstand wind and other loads.

(vi) Safety precautions during erection of steel structure shall be in accordance with IS: 7205-1973.

(vii) Unless otherwise permitted by engineer in charge, steel work damaged during offloading, transportation, storage, erection shall be replaced.

(viii) The contractor shall ensure that tower materials are not strained or damaged in any way during erection. As far as practical bolt head shall be on the inner or downward faces of support joints.

(ix) Verticality and maximum deflection of tower:

(a) UNDER STILL AIR CONDITIONS: The tower shall be vertical after erection and no straining shall be permitted to achieve this. The verticality of tower shall be within the provisions of Table-1(III) (b) of IS: 12843:1989 amended to date, viz. $\pm H/1500$ or ± 25 mm (whichever is less) for towers over 30 M height i.e. the bottom of the line joining to the centre of the top of the tower and the centre of the base of the tower shall be within this limit. (H refers to the height of the tower).

(b) UNDER MAXIMUM WIND LOAD CONDITIONS: (i) The horizontal deflection of the vertical axis of tower shall not be more than 1° (degree) at various levels including top, under maximum wind and other critical loading conditions. A sketch showing deflection of the vertical axis of tower as per Annexure-IV is enclosed for reference only. The deflection at top of tower shall be checked as per the provision made in latest IS:800: 2007. The reaction at base shall be unfactored.

(ii) The angular twist shall not exceed 0.5 degree refer Annexure-V.

c) Paint & Painting

(i) All Dust, Dirt, Grease, Scale should be removed and the surface should be thoroughly cleaned.

(ii) No chemicals of any kind are to be used for removal of dirt, Grease, Scales etc.

(iii) Surface has to be perfectly dry.

(iv) No dryers like lithomarge or turpentine are to be used. The practice of mixing kerosene oil with paint is strictly prohibited.

(v) The surface should be cleaned thoroughly and a coating of Primer should be applied before painting.

(vi) Painting should not be done either in very cold weather (Temperature less than dew point) or in unusually high humidity conditions.

(vii) After application of Primer as described above, and ensuring that the surface to be painted is dry, apply first coat of final paint. Follow up with a second coat of paint after 48 hours in dry weather.

(viii) The painting should be done carefully so that all the corners and crevices of the towers receive the paint. The paint should be evenly and uniformly applied. The Towers shall be painted in alternate bands of International Orange and White as per existing pattern.

(ix) The lattice steel portion of tower shall be painted after erection

- a. ~~One coat of etch primer conforming to IS: 5666-1970.~~
- b. One coat of zinc chromate primer conforming to IS: 104.
- c. Final two coats of synthetic enamel conforming to IS: 2932 (color, international orange & white).
- d. The final coats of paint on tower shall be painted with synthetic enamel to have alternate band of international orange and white colors with top and bottom bands painted in international orange as per civil aviation regulation. The width of the orange band shall be double width of the white band.

(x) The paints used in painting shall be of best quality from reputed paint manufacturer such as British, Asian, Berger, Shalimar paints in accordance with relevant IS codes.

(xi) All care should be taken in painting the tower if tower site environmental & pollution condition such as near sea cost / desert / snow-bound area / heavy rainy area etc. special paint shall be applied on tower at no extra cost irrespective of paints mentioned above. The approval for such paint system shall be obtained from client in advance.

d) Protection against lightning & earthing

Lightning arrester element should be isolated from Antenna and Tower. Lightning

arrester should be connected to the earth via insulated standard copper strip (25 mm x 3mm) having no joints and clamped firmly. Purity of Copper strip used shall be 97.5% or better. Lab test report of the copper strip used should be submitted.

i) The tower shall be provided with suitable complete system of lightening protection in accordance with provision of IS: 2309 — 1989, considering necessary earthing based on the specific resistibility of the soil and sub-soil water level and other relevant provisions.

ii) The comprehensiveness of lightening protection system depends on the prevalence of lightening in the locality, its frequency, and extent of occupancy nature of soil etc, the tower shall be provided protection considering these facts.

iii) All the tower legs shall be connected to ground properly as per standard practice of earthing of such structures in level ground and mountainous regions. Each down conductor should have independent earth termination. All earth termination shall be interconnected. Earth electrodes shall be constructed and installed in accordance with IS 3043-1987.

iv) The material for lightening conductors, down conductors, earth terminals network etc. of the protective system shall be reliable, resistant to corrosion or be adequately protected against corrosion. The material recommended is standard copper strip of conductor 25mm x 3mm. Purity of Copper strip used shall be 97.5% or better. Lab test report of the copper strip used should to be submitted.

Testing: The earth resistance value obtained for whole of lighting protective system should not exceed one Ohm. In case it exceeds one Ohm the same should be reduced by providing additional earth electrodes.

v) Fixing of lightening arrester, protection against lightning and construction of all earth pits in all respects as per technical specification and drawings shall be the responsibility of the tenderer. Clarification on the technical specification if needed will be provided by this office.

e) Earthing System: All the tower legs shall be earthed Individually following the standard practice of earthing of such structures in level ground and mountainous regions. Since Mahabubnagar site is a rocky area suitable earthing system may be adopted to get earth resistance value within permissible limit. A suggestive drawing of earthing system diagram enclosed for reference. (Annexure-II)

7) Aviation Obstruction Lights

Bidder shall ensure that the dual type AOL is fixed and made operational on the re-

erected tower. One medium intensity light at top of tower / designated location in accordance with international civil aviation organization rules and as described below. Safe fixing of AOL on the tower will be responsibility of the tenderer.

i. The tower shall be provided with dual type medium intensity light LED based Aviation obstruction light at top of tower i.e. EL 45.0 M in accordance with international civil aviation organization rules and as described below:

ii) The medium intensity obstacle lights shall be flashing red lights. The flash frequency shall be between 20 - 60 per minute. The effective intensity of the flash not less than 2000 cd +/- 10% of red lights.

iii) The aviation obstruction lights shall have globes / dome and their housing is strong weather proof and of approved manufacturer.

8) Workmanship

All workmanship for foundation work shall be in accordance with specification, approved drawings and IS: 456 — 2000.

i) The bidder shall carryout excavation in all kind of soils, while excavating excavation shall be adequately supported for formed to ensure stability of the sides and prevents any damage to the surrounding ground or structures.

ii) Excavation material stable for re-use as backfill shall be stored within the site working area.

iii) For excavation in cohesive soil the final 150mm above foundation bottom level shall only be removed immediately prior to placing to M10 Concrete pad.

iv) The bidder shall not permit water accumulation in excavated pit until unless agreed by engineer in charge.

v) The tenderer shall carry out concrete trial mix using representative materials. Mix proportioning shall be carried out under full scale condition as per IS:10262 amended to date. The testing shall be carried out accordance with IS: 456 amended to date. Minimum three test cubes shall be tested.

vi) The aggregated and cement shall be proportioned by means of efficient weight batching machines. The machine shall be maintained & cleaned periodically.

vii) The concrete shall be mixed in batches, in concreted mixtures, which shall comply to BIS codes.

viii) The bidder shall carry out slump or other workability tests as required during concreting of work in order to relate the degree of workability of the mix to the values obtained during the trial mix.

ix) All formwork shall be accurately constructed to produce the correct foundation shape and shall be sufficiently strong to withstand pressure arising from concrete during placement and compaction.

x) Reinforcement bar shall be bent and fixed in accordance with procedure specified in IS : 2505. the high strength deformed steel bars should not be re-bent straightened without approval of engineer-in-charge. All the reinforcement should be placed and maintained in the position as shown in the drawing by providing proper block, spacers, supporting bar.

xi) The concrete shall be placed in layer maintaining proper cover of reinforcement, which shall be compacted by vibrators or other approved means. The curing & protection shall immediately after compaction of the concrete and shall ensure adequate protection.

xii) Backfilling shall be compacted in 300mm layers to achieve a bulk density of 1.7 m³

xiii) As soon as possible contractor shall clean & clear the site from all surplus soil and other materials.

xiv) Inspection and testing concrete work shall be accordance to provisions of IS 456: 2000.

9) Mounting of antenna systems

(a) After erection of tower, the bidder shall mount 4 bay Antenna, 3 ½ " RF cables including suitable fixing clamps, junction box etc., as per the instruction of Installation Officer.

(b) Fabricate the support arrangement for installing Akashvani FM antenna as per the design provided by the department and fix it to the mast as per the drawing. This support arrangement shall be painted as per specification. Mounted to this the support arrangement on the 45m SS tower for fixing FM 4 bay Antenna.

(c) Akashvani FM feeder cables shall be neatly clamped using stainless steel clamps of appropriate size.

(d) The junction box, branch feeder cables and power dividers of Akashvani FM shall

be suitably fitted / clamped to the mast.

(e) For the sake of completeness of work, the bidder shall undertake minor / major items of works that may become necessary in mounting of antenna system here to mentioned.

10) Essential Eligibility Criteria for Bidder

a) The bidder must have an experience of erection of not less than 2 Nos of Self-Supported steel Towers of 45m or higher height in the past 15 years. Documentary evidence to support this must be provided. Details of past erection record of such towers to various organizations must also be provided in the format given in below to support this.

Order No. With date, reference	Tower type and height of tower	Quantity	Name of the organization with full postal address for whom tower was erected	Details of performance of the contract
(1)	(2)	(3)	(4)	(5)

Copies of Work Order and performance certificates are to be enclosed by the bidder.

b) Akashvani reserves the rights to get performance feedback of the towers erected by the bidder from any of the end user of such towers named by the bidder.

11) GUARANTEE

i) The bidder shall guarantee to replace any material or part that may develop defects within **three years** of handing over of tower at free of charge.

ii) The bidder shall guarantee safety, stability, durability and satisfactory behavior of complete system and part thereof including allied system such as lightening arrestors, aviation lights etc. The guarantee shall hold good for a period of three years, from the date of completion of erection of the tower and antenna.

12) PAYMENT TERMS

i) On satisfactory completion of foundation works and submitting the third- party certification, 90% of foundation cost will be paid.

ii) Remaining payment will be made on satisfactory completion of all works and after submitting third party inspection certification.

13. DELIVERY PERIOD: 120 days from the date of work order.

14. SPECIAL CONDITION

Successful bidder shall obtain stagewise third party Inspection Certificate for satisfactory completion of works. The Inspecting Authority shall be a domain expert in the relevant field. The bidder shall engage IIT/NIT/reputed Govt. Institutions as inspecting authority at his own cost.

The bidder shall engage the inspecting authority,

- To Inspect whether Tower foundation works are complying to the Technical Specifications laid in the Tender, and certify on completion of the Tower foundation works.
- To examine and certify whether the workmanship is satisfactory and work is carried out as per Technical Specifications laid in the Tender.
- To examine and certify whether verticality of the tower is well within the allowable tolerance as stipulated in the tender, after Tower erection.
- To check the whether quality of the item/ materials supplied by the bidder is complying to the Technical Specifications laid in the Tender.
- Successful bidder shall specify the inspecting authority proposed to be engaged for Third Party Certification. A letter of acceptance from the proposed inspecting authority to this effect shall be produced, before taking up the work

15) GENERAL TERMS AND CONDITIONS

a. The bidder shall carry out the work at his own risk. The usage of Safety Gadgets like Safety Belt, Helmet, and Goggles is compulsory and shall be provided by the Contractor.

b. The bidder must start the work only after making necessary entries in the Safety Register and getting clearance from the Engineer-on- Duty at Akashvani. The Contractor shall handover the tower to the Engineer at the time stipulated. No extension of time is permitted.

c. The bidder shall carryout the works with utmost care, not to damage any existing equipment, antenna etc. Contractor will be held responsible for any damages caused to property of Akashvani / Doordarshan during the execution of the work and shall make good such damages at his own cost.

16) PROTECTION OF LIFE & PROPERTY AND EXISTING FACILITIES

The bidder is fully responsible for taking all possible safety precautions during preparation for and actual performance of the works, and for keeping the construction site in a reasonable safe condition, The bidder shall protect all life and property from damage or losses resulting from his construction operations and shall minimize the disturbance and inconvenience to the public. In this connection, the attention of the bidder is drawn to the safety measures and precautions including code of conduct while safely carrying out the work and also detailed engineering instructions enumerated in these tender documents which the bidder shall obtain in writing from the Engineer-in- charge.

a. The bidder shall be solely liable for all expenses for and in respect of repairs and

/ or damage occasioned by injury of or damage to such underground and above structures or other properties and undertake to indemnify and keep indemnified Akashvani /Doordarshan from and against all actions, cause of actions, damages, claims and demands what-so-ever either in law or in equity and all losses and damages and cost (inclusive between attorney and client), charges and expenses in connection therewith and /or incidental thereof.

b. The current market value of any commodity(s) lost as a result of any damage to the aforesaid existing facilities shall be paid by the contractor together with such additional sums necessary to liquidate the personal or property damages resulting there from.

17) INSURANCE

Without limiting any of his other obligations or liabilities, the bidder shall at his own expense, take and keep comprehensive insurance including third party risk for the plant, machinery, materials, etc brought to the site and for all the work during the execution. The bidder shall also take out workmen's compensation insurance as required by Law and undertake to indemnify and keep indemnified Akashvani /DD from and against all manner of claims and demands and losses and damages and cost (including between attorney and client) charges and expenses that may arise in regard the same or that the Akashvani /Doordarshan may suffer or incur with respect to and / or incidental to the same

18) INDEMNITIES

The bidder shall at all times hold the Akashvani / DD harmless and indemnify from against all actions, suits, proceedings, works, cost, damages , charges, claims and demands of every nature and descriptions brought or procured against the Akashvani / DD, its officers and employees and forthwith upon demand and without protest or demur to pay to the Akashvani / DD any and all losses and damages and cost (inclusive between attorney & client) and all costs incurred in endorsing this or any other indemnity or security which the Akashvani /DD may now or at any time have relative to the work or the contractor's obligations or in protecting or endorsing it's right in any suit or other legal proceedings, charges and expenses and liabilities resulting from or incidental or in connection with injury, decease or disablement to or death of any person(s) including employee(s) of the contractor or damage to property resulting from or arising out of our in any way connected with or incidental to the operations caused by the contractor documents. In additions, the contractor shall reimburse the Akashvani / DD or pay to the Akashvani/ DD forthwith on demand without protest or demur all cost, charges and expenses and losses and damages otherwise incurred by it in consequence of any claims, demands and actions which may be brought against the Akashvani /DD arising out of or incidental contract.

19) COMPLIANCE STATEMENTS

A para wise compliance statement in tabular form giving Akashvani specification clause by clause, contractor's compliance and deviation if any under remarks shall be attached with the offer. This is a mandatory requirement without which tender is

liable to be rejected.

20) GENERAL

a. The bidder shall be fully responsible for transportation, design, construction of foundation, erection of tower, mounting of antennas & RF cables, electrical & earthing etc. and safety of complete works.

b. The bidder shall complete and include all minor / major items of appurtenances which may not have been enumerated in his specification and schedule, but which are useful and necessary for completion in all respects, described work as per good engineering practices and no extra charges will be paid for providing and installing such minor / major items.

c. The bidder shall make own arrangements for water and storage of materials and their safe custody at site for dismantling, transportation foundation and erection of tower.

d. Prior approval of the client in writing, shall be obtained if the bidder desires to sublet or associated with the, construction of foundation, erection of tower, mounting of antennas etc. such permission of consent shall not however discharge the bidder from his liabilities in this contract or any part thereof.

e. i) The bidder shall indemnify and hold harmless the client against any claims in respect of damages of building, property situated nearby, not belonging to the client, howsoever arising from the erection of the tower construction of foundation and in course of such work and throughout the period during which the safety of tower is guaranteed.

ii.) The bidder shall indemnify and hold harmless the client against claims in respect of injury to any person howsoever arising out of the tower construction work and throughout the period during the safety of the tower is guaranteed.

iii) The bidder shall discharge all obligations under the Indian workmen's compensation act and any local state laws and regulations in so far as it affects the workmen in his employment. The contractor shall make his own arrangements for employing labour skilled & unskilled and shall make his own arrangement for providing accommodation for his workman at site.

SECTION- IV
Bill of Materials

Sl. No	Description of Supply of material/ work	QTY
1	Design of Tower foundation: Preparation of and submission of Design drawing of tower foundation approved IIT/NIT/SERC etc. Excavation of earth & foundation Construction including supply of raw material, hardware, labour, site clearance (as per AIR Specifications). Soil test report enclosed for bidder's reference	1 Job
2	Dismantling of the existing 45-meter-high self-supporting tower at Akashvani Nellore Transmitter site, (A.P.) including all tower related materials such as RF Cable, Antenna ladder, anchor bolts, hand rail, galvanized fasteners, cable tray, AOL etc. marking of members including photography and video	1 Job
3	Transportation of the dismantled 45m SS Tower structure material from Akashvani Nellore including all tower related materials such as ladder, anchor bolts, hand rail, galvanized fasteners, cable tray, to Akashvani Mehabubnagar site (450 km approx.), also dismantled Antenna to be transported to Akashvani Mahabubnagar without any transit loss damage to the materials. Dismantled 1½" RF cable to be properly rolled and kept in safe place as per site Engineer instructions at Akashvani Nellore. Safe transportation of 3½" RF cable from Akashvani Warangal to AV Mahabubnagar including loading & unloading (250 km approx.).	1 Job

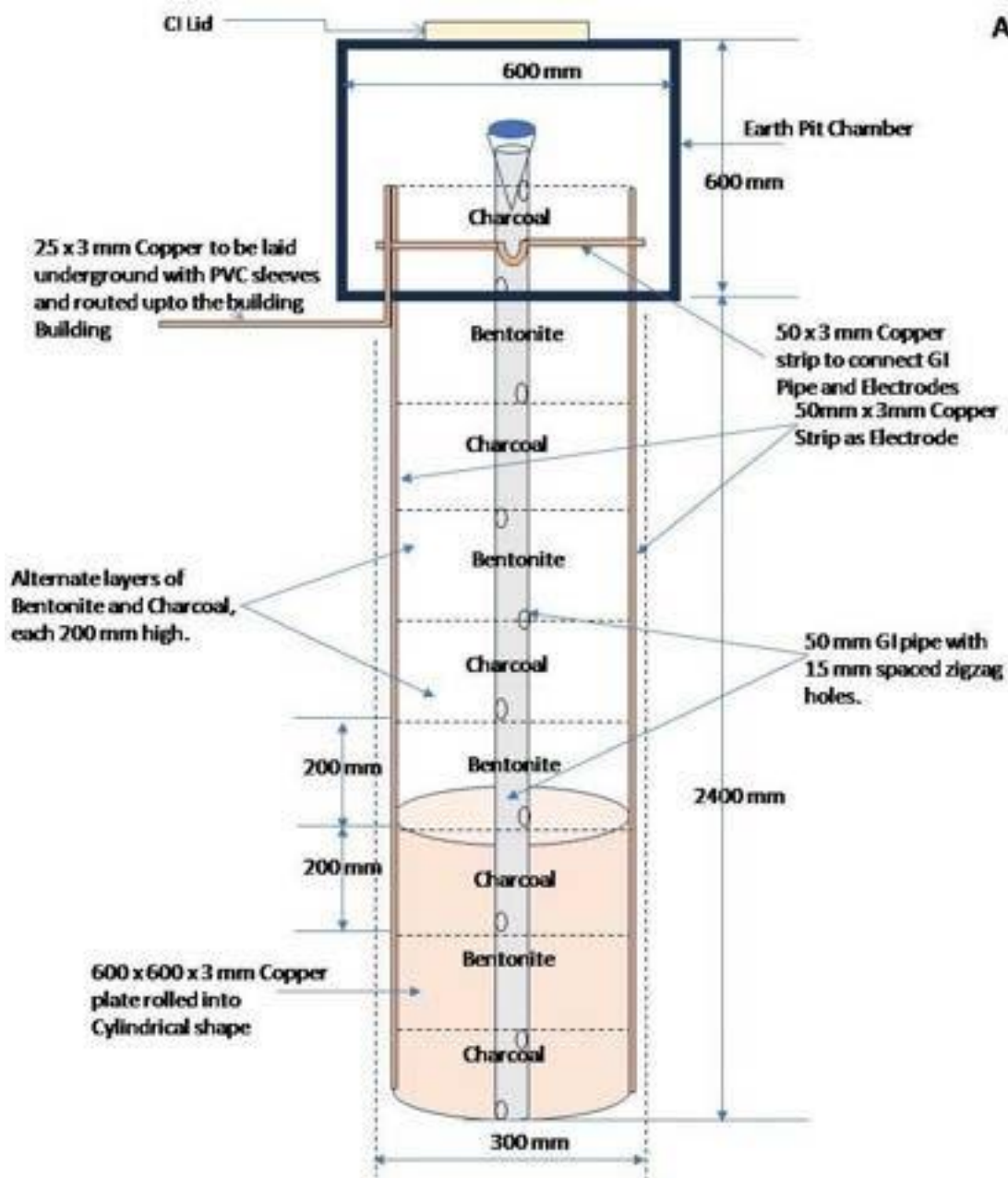
4	Erection of dismantled 45m SS tower strictly as per the GA drawing. Missing/Damaged/Rusted nuts and bolts, Tower members shall be replaced by the vendor. Such replaced members, bolts, nuts etc should be shown to Installation Officer, before fixing. Main frames/Ties/Brazing which are not usable should be replaced. All tower accessories including aviation obstruction lights with required armored cables and junction box etc. shall be erected. Verticality to be maintained as per specification and a certificate to be obtained for satisfactory performance completion of the above job, by the third party i.e. any Govt institutions	1 Job
5(a))	Fixing of dismantled class C seamless GI pipe at the top of tower for mounting of 4 bay Antenna including material i.e. clamps. Vendor shall fabricate, paint and install the support structure for installing this antenna on SS tower as per the design provided in this tender. Then mount Akashvani FM antenna to this support structure. The drawing and tentative quantity of material required for this support are enclosed	1 Job
5(b))	Laying of RF cable. The 3½" RF feeder cables pertaining to all antenna shall be properly clamped along the ladder. Between the tower and transmitter hall the cables shall be routed on Horizontal tray fixed firmly to GI poles at 10 feet height as per site condition. The GI poles shall be firmly fixed to the ground to hold the channels. The dismantled horizontal tray and GI pipes shall be used for erecting of tray, additional material required for the tray will be supplied by Dept.	1 Job
5(c))	Supply of dual type AOL and 2.5 Sqmm 3 Core Power cable -75m and fixing at the top of tower and the supplied power cable shall be drawn up to the lamps. Lightening arrester shall be mounted on top of the tower and safely earthed separately through insulated copper strip (25mm x 3 mm), as per specification.	1 Job
5(d))	Supply of Copper Strip (50mmX 3mm) and providing of Four number earthing for the four legs of the tower individually.	1 Job

6	Painting : Supply of Paint including painting material brush, cleaning material etc and Labour charges for Painting the Tower as per specification given. Paint should be shown to the Installation Officer and painting works should be done under supervision of officer designated by this office and a certificate to be taken for satisfactory completion performance of the above job	1 Job
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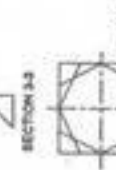
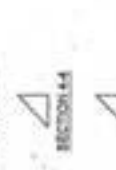
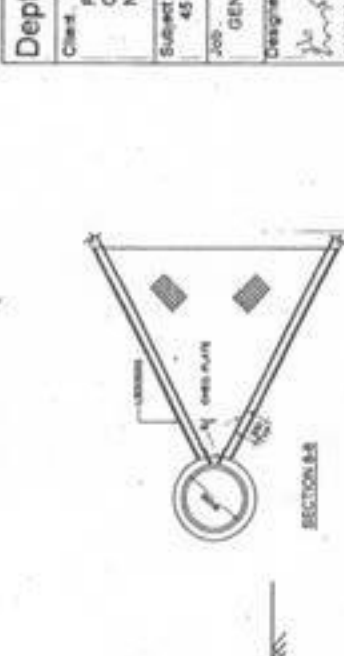
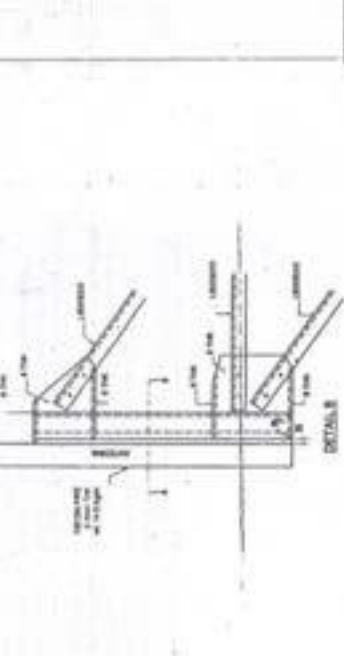
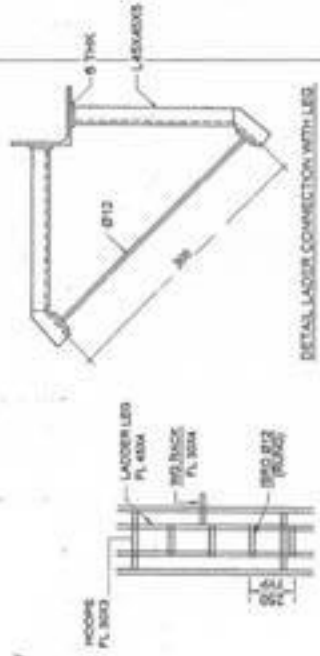
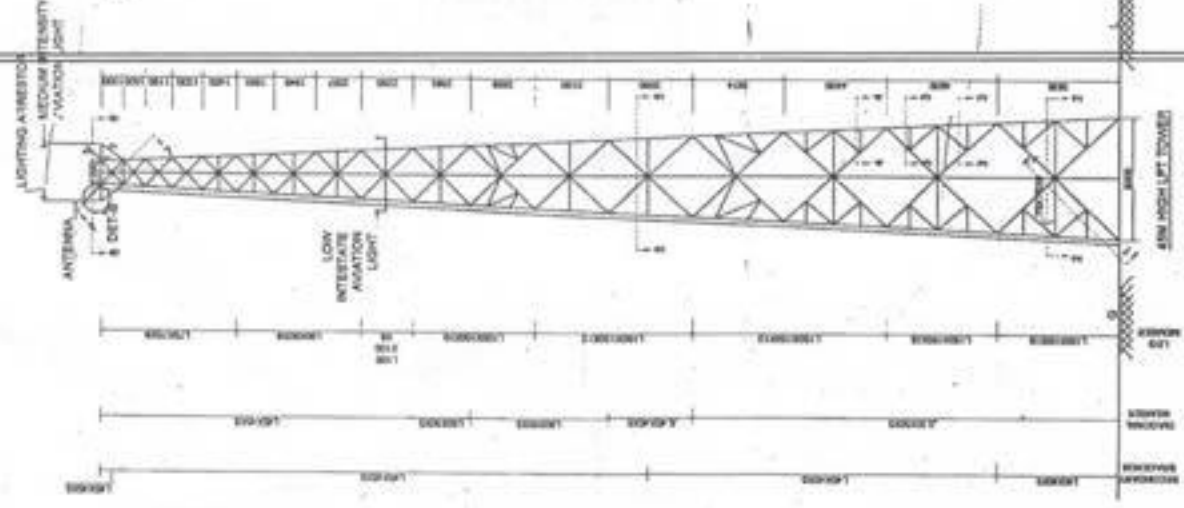


EARTHING SYSTEM

Annexure II



50



- NOTES
1. ALL DIMENSIONS ARE IN MM
 2. ALL CONNECTIONS SHALL BE DEVELOPED WITH 80 % OF THE CAPACITY OF THE MEMBER EXCEPT SPICES WHICH WILL BE 100% CAPACITY.
 3. ALL BOLTS SHALL BE 16 ON PROPERTY CL. 8.8 A D CONFORMING TO DIMENSIONS AS PER IS 8033
 4. ALL WELDS SHOULD BE 8 mm UNLT NOTED OTHER WISE AND ALL CONTACT SURFACES SHOULD BE WELDED.
 5. ALL BOLTS SHOULD HAVE ONE SPRING WASHER CONFORMING IS 5009 OR IS 4072.
 6. ALL TOWER MEMBER SHALL BE OF STRUCTURAL STEEL CONFORMING TO IS 2002 OR A STEEL 50 AND ABOVE SHALL BE PROCURED EXCLUSIVELY FROM MAIN PRODUCER 1.8 SA, TISCO, RINL (VSP). PRIOR PERMISSION SHOULD BE OBTAINED FROM DOORDARSHAN FOR USE OF STEEL FROM OTHER SOURCES THAN SPECIFIED.
 7. ALL STEEL MEMBERS SHALL BE HOT-DIP GALVANIZED CONFORMING TO IS 2029 -1985. FASTENERS AS PER IS 1567 PART XII AND WASHERS AS PER IS 1573-1996.
 8. ALL MEMBERS SHALL BE PAINTED AFTER ERECTION AS PER PAINT SCHEDULES GIVEN BELOW:
 9. ONE COAT OF LEAD OXIDE CONFORMING TO IS 9994-1975
 10. ONE COAT OF ZINC OXIDE PRIMER CONFORMING IS 104
 11. TWO COATS OF SYNTHETIC ENAMEL PAINTS INTERNATIONAL ORANGE & WHITE COLORS IS 2053
 12. THE TOWER SHALL BE PAINTED TO HAVE ALTERNATE BANDS OF INTERNATIONAL ORANGE AND WHITE COLORS WITH TOP AND BOTTOM HANO PAINTED IN ORANGE AS PER CIVIL AVIATION REGULATIONS
 13. FOR FOUNDATION, DETAIL REF FOUNDATION DRAWING 008
 14. USE OF THIS DESIGN DRAWING IS FOR THE TOWER SITES HAVING MAX BASIC WIND SPEED OF 47m/sec (109 kmph) RISK COEFFICIENT K₁ OF TERRAIN CATEGORY 2 STRUCTURE CLASS II TOPOGRAHY FACTOR K₂ OF IS 215 (IS-1987). FOR OTHER CLASS DESIGN REVIEW IS REQUIRED.

Deptt. of Civil Engg., I.I.T. Roorkee

Client	PRASAR BHARTI (BCI) Office of Chief Engineer (NZ) New Delhi
Subject	45 M LPT DOORDARSHAN TOWER FOR WIND ZONE IV (NON HILLY)
Job	GENERAL ARRANGEMENT DRAWING
Designed & Checked by	<i>[Signature]</i> ANU Upadhyay
Scale	SCALE-1:25, 1:10, 1:20
Ref. Dwg.	Ref. Dwg. TVT/MS/MT/ROAD
Date	DATE: 21.05.05
Rev.	REV: 0

Support structure for mounting AIR FM antenna

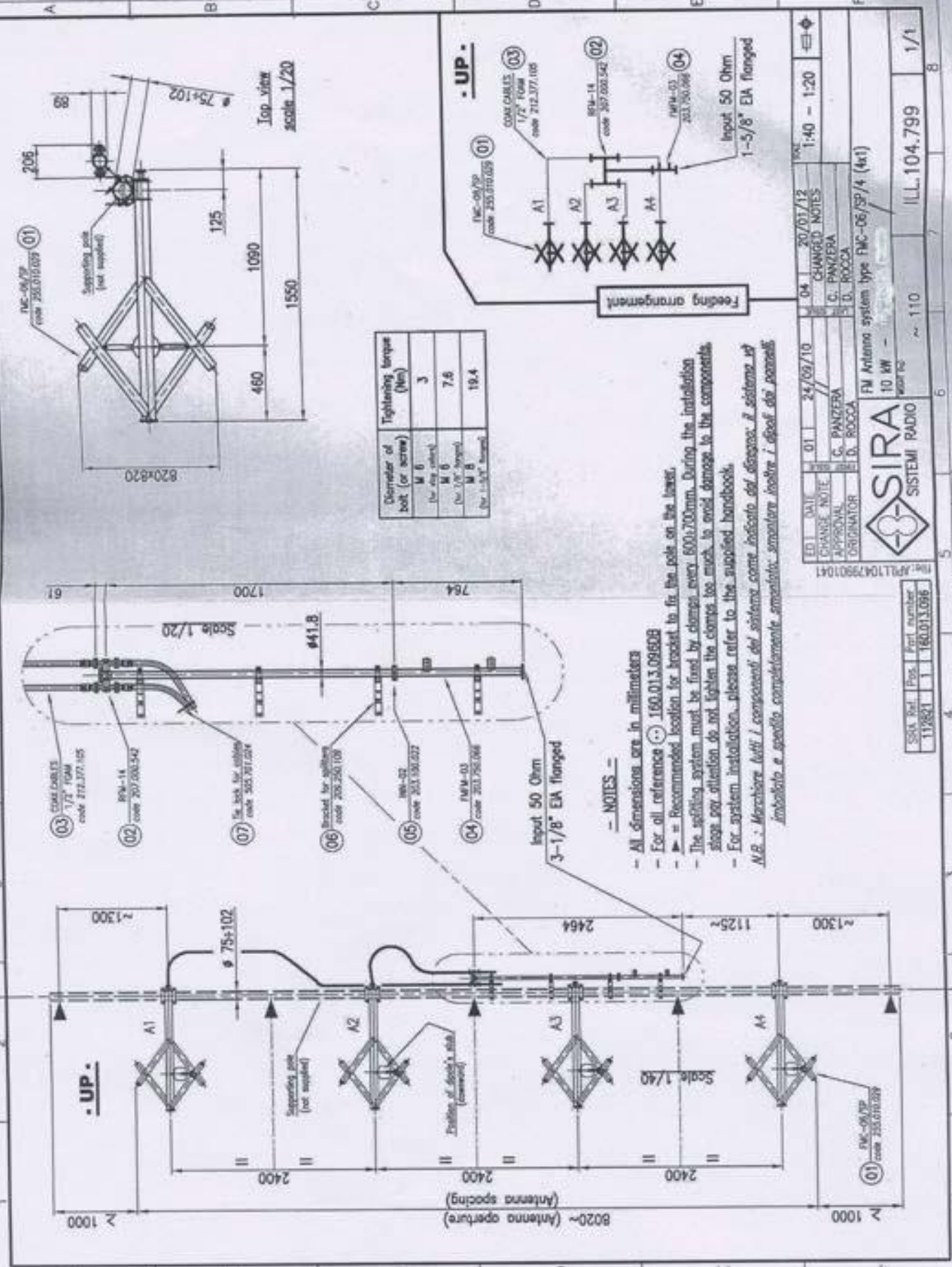
Tentative requirement of Material Quantity

Sl. No.	Member	Section	Weight kg/m or kg/no.	Length m	Nos.	Weight kg
1	Channel	ISMC 75	7.14	2	4	57.12
2	Angle	ISA 50 × 50 × 6	4.50	1.7	2	15.30
3	Angle	ISA 50 × 50 × 6	4.50	1.9	4	34.20
4	Angle	ISA 50 × 50 × 6	4.50	2	2	18.00
5	Plate	250 × 200 × 12	4.71	-	2	9.42
6	Bolt & Nut	16 mm Dia.		0.2	24	
7	Bolt & Nut	12 mm Dia.			8	
8	U Clamp	12 mm Dia.			6	
9	U Clamp Nut	12 mm Dia.			12	
10	O-ring	4¼ inch inner Dia., 2 inch height & 1/2 inch thick			2	

According to the law we reserve the right of assembly of the drawing with previous to reproduce it or however to adapt it to changing technical lines of it to suit other technical instructions.

Il disegno è proprietà di SIRA e non deve essere ristampato o copiato senza permesso scritto dalla SIRA.

802.100.003 REV.02 24/01/95 A3



Diameter of bolt (or screw)	Tightening torque (Nm)
M 6 (for dry screw)	3
M 6 (for 1/8" torque)	7.6
M 8 (for 1/8" torque)	19.4

NOTES -

- All dimensions are in millimeters
- For all reference: 160.013.09808
- = Recommended location for bracket to fix the pole on the mast.
- The splitting system must be fixed by clamps every 600-700mm. During the installation always pay attention do not tighten the clamps too much to avoid damage to the components.
- For system installation, please refer to the supplied handbook.
- *M.B. : Montare tutti i componenti del sistema come indicato nel disegno. Il sistema è imballato e spedito completamente assemblato: smontare inoltre i dischi dei pannelli.*

SIRA
SISTEMI RADIO

FM Antenna system type FMC-06/SP/4 (4x1)
10 kW -
Power

EDT DATE 01 24/09/10 04 20/01/12
CHANGE NOTE
APPROVAL
ORIGINATOR
C. PANZERA
D. ROCCA

1:40 - 1:20

ILL. 104.799 1/1

**GEO-TECHNICAL INVESTIGATIONS FOR THE PROPOSED CONSTRUCTION OF
FOUNDATION FOR 100FT HIGH AT ALL INDIA RADIO, HIGH POWER TRANSMITTERS IN
MAHABUBNAGAR, IN MAHABUBNAGAR DISTRICT IN TELANGANA STATE**

June 21st, 2024



Report for

Client :

**M/S PRASAR BHARTI (INDIA'S PUBLIC SERVICE BROADCASTER),
OFFICE OF ADDITIONAL DIRECTOR GENERAL (E) (SZ),**

AKASHWANI & DOODRDARSHAN.

CHENNAI, 600005

Contractors:

M/s STUP INFRA PVT LTD,

GHAZIABAD, UTTARPRADESH 201002



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PLOT NO 9, BANK COLONY, GAYATRI NAGAR, SAHEB NAGAR, HYDERABAD

Ph : 9885716987, 7569026753 Email : kambhampaticonsultants@gmail.com

**FOR THE PROPOSED CONSTRUCTION OF
100M TOWER**

CLIENT : **M/S PRASAR BHARTI (INDIA'S PUBLIC
SERVICE BROADCASTER),
OFFICE OF ADDITIONAL DIRECTOR
GENERAL (E) (SZ),
AKASHWANI & DOODRDARSHAN,
SWAMI SIVANANDA SALAI,
CHENNAI- 600005**

CONTRACTORS : **M/S STUP INFRA PVT LTD,
F-109, PLOT NO: A-12,
ADITYA CORPORATE HUB, RDC,
RAJNAGAR, GHAZIABAD, UTTARPRADESH,
201002**

21.06.2024



MAHABOORNAGAR



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National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

KAMBHAMPATI CONSULTANTS

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

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TELANGANA, INDIA

in the field of

TESTING

Certificate Number: TC-6105

Issue Date: 10/08/2023

Valid Until: 09/08/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : KAMBHAMPATI CONSULTANTS

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



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**FOR THE PROPOSED CONSTRUCTION OF FOUNDATION FOR 100FT HIGH AT
ALL INDIA RADIO, HIGH POWER TRANSMITTERS IN MAHABUBNAGAR, IN
MAHABUBNAGAR DISTRICT IN TELANGANA STATE**

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Seismic Zone	4
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**GEO-TECHNICAL INVESTIGATIONS FOR THE PROPOSED CONSTRUCTION
OF FOUNDATION FOR 100FT HIGH AT ALL INDIA RADIO, HIGH POWER
TRANSMITTERS IN MAHABUBNAGAR, IN MAHABUBNAGAR DISTRICT IN
TELANGANA STATE**

1.0 AUTHORITY

- 1.1 M/s Prasar Bharati (India's Public Service Broadcaster), Office of Additional Director General (E) (SZ), Akashwani & Doordarshan, Swami Sivananda Salai, Chennai-600005 are proposing for Design, Supply, Erection, Testing and Commissioning (DSETC) of Self Supporting Latticed Steel 100M Tower including provisions for mountings and installation of VHF FM Antenna etc, for FM Station Situated at All India Radio, High Power Transmitters, Mahabubnagar in Mahabubnagar District in Telangana State.
- 1.2 M/s Stup Infra Pvt Ltd, F-109, Plot No. A-12, Aditya Corporate HUB, RDC, Rajnagar, Ghaziabad, Uttarpradesh 201002 are the Contractors
- 1.3 A soil investigation programme has been conducted as per the Telephonic Conversations held with Mr. Naushad Alam on date 12th June 2024.

2.0 PROJECT DETAILS

2.1 The Site

- 2.1.1 The site for the Proposed structure is located at Mahabubnagar which is about 103 km from Hyderabad.

2.2 Structure

- 2.2.1 As per the clients information a Self Supporting Lattice Steel 100 M High Tower is proposed to be constructed.



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2.3 Weather Conditions

- 2.3.1 The weather was Clear and Dry during field investigations, which were carried out on 18th June 2024.

2.4 Seismic Zone

- 2.4.1 The proposed project site is situated near Hyderabad, which falls under Seismic Zone II as per IS 1893 (Part I) - 2002.

3.0 OBJECT OF INVESTIGATIONS

- 3.1 For designing the foundation system of the proposed structures, the following data are required;

- a) Type of foundation system.
- b) Depth below the ground level at which the foundation system is to be laid.
- c) Allowable bearing pressure on the foundation at different depths.

- 3.2 To determine above factors, the following information would be required:

- a) The sub soil profile indicating thickness of the various soil strata, to a depth down to the influence zone below the foundations.
- b) Engineering properties of the soil strata at various levels.
- c) Physical characteristics of the soil strata.
- d) Variation of the strength of the strata with depth.

- 3.3 For evaluating the above parameters, field investigations and laboratory tests on the soil samples collected during the field investigations have been carried out.

- 3.4 The results from these investigations have been analysed to provide the recommendations for the design of foundations.



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3.5 These recommendations are valid for the investigated locations only.

4.0 SCOPE OF INVESTIGATIONS

4.1 In order to achieve the above objectives, the scope of investigations given by the client includes the following:

- a) Drilling Two bore holes of 100 mm dia down to a depth of 10m into Soils/Refusal strata as per IS 1892.
- b) Collection of Disturbed and Undisturbed soil samples in the borehole.
- c) Conducting standard penetration tests at regular intervals in the borehole.
- d) Conducting relevant laboratory tests on soil samples recovered.
- e) Preparation and submission of a technical report containing the details of the tests carried out, their analysis and recommendations regarding the foundation system to be adopted.

5.0 FIELD INVESTIGATIONS

5.1 Preliminary Details

2.4.1 Field investigations were carried out on 18th June 2024.

5.2 Boreholes

5.2.1 The Boreholes were drilled at the specified locations shown by the client

5.2.2 The termination depths of the boreholes are given in the following table.

Borehole No.	Termination Depth from Existing GL (m)
1	10.0
2	10.0



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5.2.3 No water table is encountered in all the boreholes.

5.2.4 The following operations were undertaken in the boreholes.

- i. Conducting standard penetration tests.
- ii. Collecting undisturbed samples.

5.2.5 Disturbed soil samples recovered from the split spoon sampler were packed in polythene bags and retained for identification purposes.

5.2.6 Undisturbed soil samples were recovered by thin walled shell-by tubes conforming to IS 2132. These tubes had an area ratio of less than 10%.

5.2.7 The diameter of soil samples were 50 mm and its length was 45 cm. However in the refusal strata samples of smaller lengths were collected as further penetration was not practical.

5.2.8 The ends of sample tubes were sealed by wax to prevent loss/ ingress of moisture.

5.2.9 Standard Penetration Tests were conducted as per IS 2131 - 1981.

6.0 LABORATORY INVESTIGATIONS

6.1 The soil and rock samples brought to the laboratory were tested to evaluate the following properties

- a) Type of soil and its gradation
- b) Specific gravity
- c) Consistency limits
- d) Natural density
- e) Natural water content
- f) Swelling properties



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g) Shear strength properties

6.2 In order to determine the above properties the following tests have been conducted.

- a) Sieve analysis on the coarse grained soil fraction
- b) Hydrometer analysis on the fine grained soil fraction
- c) Specific gravity
- d) Atterberg limits
- e) Natural Density and Water Content tests
- f) Triaxial Shear tests

7.0 RESULTS OF INVESTIGATIONS

7.1. The results of field investigations and laboratory tests conducted on the soil/ rock samples collected from the bore have been presented in the form of soil profile tables.

7.2 The soil profile tables (Table No 1) as well as the compiled profile (Figure 2) gives the details of the strata including their classification and strength properties as ascertained from the tests conducted.

7.3 The soil profile tables indicate the following:

- a) Standard Penetration Test Values (observed N- values) at various depths
- b) In-situ bulk density and Water content
- c) Direct Shear test results
- d) Atterberg limits
- e) Grain size Analysis



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8.0 ANALYSIS OF RESULTS

8.1 Subsoil Profile

8.1.1 The compiled subsoil profile as determined from the results of the field and laboratory investigations has been presented in Figure 2.

8.1.2 An analysis of the data provided in soil profile tables indicates stratification with the presence of the following strata:

- i. Stratum I : Clayey Silty Sand with Gravels
- ii. Stratum II : Soft Disintegrated Rock
- iii. Stratum III : Hard Granite Rock

Bore Hole No	(Depth in m : from - to)		
	Stratum I	Stratum II	Stratum III
BH 1	0.0 – 1.0	-	1.0 – 10.0
BH 2	0.0 – 1.0	6.5 – 7.0	1.0 – 6.5, 7.0 – 10.0

9.0 DESIGN CRITERIA

9.1 Type of Foundations

9.1.1 As per the clients information a Self Supporting Lattice Steel 100 M High Tower is proposed to be constructed.



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9.1.2 The type of foundation depends upon the founding strata, loading intensity at the foundation level and configuration at loading points.

9.1.3 For the above conditions, Open foundations are recommended for the proposed structures.

9.2 Depth of Foundation

9.2.1 The following criteria have been taken into consideration to arrive at the minimum depth of foundation.

- a) Top loose zone
- b) Adequate depth of soil above founding level, to ensure mobilization of full safe bearing capacity
- c) Adequate depth of soil strata below founding level of requisite strength to mobilize the safe bearing capacity and at the same time restrict the total and differential settlements within the allowable limits.

9.2.2 The actual depth of foundation shall be decided by the design engineer.



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10 RECOMMENDATIONS

- a) Type of Foundations : RAFT
- b) Type of Footing : Combined
- c) Allowable bearing pressure: Allowable bearing pressure as given in the following table may be adopted

Foundation		Strata	Location	Allowable Settlement (mm)	Allowable Bearing Pressure (tons/m ²)
Depth	Width				
1.50 M	5.00 m	Hard Granite Rock	BH 1, 2	Nil	36.0
1.50 M	5.50 m	Hard Granite Rock	BH 1,2	Nil	37.5
1.50 M	6.00 m	Hard Granite Rock	BH 1,2	Nil	38.0
1.50 M	6.50 m	Hard Granite Rock	BH 1,2	Nil	39.0
1.50 M	7.00 m	Hard Granite Rock	BH 1,2	Nil	39.5
2.00 M	5.00 m	Hard Granite Rock	BH 1, 2	Nil	40.0
2.00 M	5.50 m	Hard Granite Rock	BH 1,2	Nil	41.0
2.00 M	6.00 m	Hard Granite Rock	BH 1,2	Nil	42.5
2.00 M	6.50 m	Hard Granite Rock	BH 1,2	Nil	44.0
2.00 M	7.00 m	Hard Granite Rock	BH 1,2	Nil	45.0



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11.0 PRECAUTIONS

- 11.1 Entire report should be studied before implementing the recommendations.
- 11.2 Loose pockets of weathered / fissured & fractured rock if encountered shall be removed and backfilled with concrete. A leveling course of concrete shall be laid and construction of foundations can be taken up subsequently.

12.0 LIMITATIONS

- 12.1 The soil investigations have been carried out at locations in the site chosen by the clients so as to represent the entire site. The recommendations provided in this report are hence valid only for these test locations. However, if there is any change in sub soil conditions and properties at places between or beyond chosen test locations, KAMBHAMPATI CONSULTANTS may be contacted for further advice.
- 12.2 With passage of time, the recommendations may vary due to manmade and natural environmental changes.



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13.0 REFERENCES

- 13.1 A list of IS codes referred for providing the recommendations and that which might be required to implement the same has been given in Appendix 3.



for KAMBHAMPATI CONSULTANTS

K. KASTHURI NADH

M.Tech (IIT Madras), M.I.S.T.E

Chief Consultant



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TABLE-1

SUMMARY OF SOIL PROPERTIES

Property /Bore Hole No.	Soil	Depth (m)	Specific Gravity	Water Content (%)	Natural Density (g/cc)	Grain Size Distribution (%)			Atterberg Limits (%)			Shear Parameters	
						Gravel > 4.75mm	Sand 4.75 – 0.075mm	Silt + Clay < 0.075mm	Liquid Limit	Plastic Limit	Plasticity Index	Cohesion kg/sq cm	ϕ degrees
BH 1	SC	1.0	2.62	1.3	1.63	15	33	52	30.5	22.5	8	0.32	28
BH 1	HDR	2.0	2.82	1.9	1.97	-	-	-	-	NP	NP	0	35
BH 1	HDR	3.5	2.83	2.7	2.00	-	-	-	-	NP	NP	0	35
BH 1	HDR	5.0	2.85	3.6	2.02	-	-	-	-	NP	NP	0	36
BH 1	HDR	6.5	2.86	4.3	2.05	-	-	-	-	NP	NP	0	36
BH 1	HDR	8.0	2.87	5.7	2.07	-	-	-	-	NP	NP	0	36
BH 1	HDR	9.5	2.88	6.4	2.09	-	-	-	-	NP	NP	0	36



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TABLE-1A**SUMMARY OF SOIL PROPERTIES**

Property /Bore Hole No.	Soil	Depth (m)	Specific Gravity	Water Content (%)	Natural Density (g/cc)	Grain Size Distribution (%)			Atterberg Limits (%)			Shear Parameters	
						Gravel > 4.75mm	Sand 4.75 – 0.075mm	Silt + Clay < 0.075mm	Liquid Limit	Plastic Limit	Plasticity Index	Cohesion kg/sq cm	ϕ degrees
BH 2	CL	1.0	2.61	1.3	1.61	8	32	60	33.5	23.5	10	0.35	27
BH 2	HDR	2.0	2.82	1.8	1.99	-	-	-	-	NP	NP	0	35
BH 2	HDR	3.5	2.85	2.8	2.01	-	-	-	-	NP	NP	0	35
BH 2	HDR	5.0	2.86	3.7	2.03	-	-	-	-	NP	NP	0	35
BH 2	SDR	6.5	2.87	4.6	2.00	-	-	-	-	NP	NP	0	34
BH 2	HDR	8.0	2.88	5.3	2.07	-	-	-	-	NP	NP	0	36
BH 2	HDR	9.5	2.89	6.4	2.09	-	-	-	-	NP	NP	0	36



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APPENDIX – 1**CALCULATIONS FOR ALLOWABLE BEARING PRESSURE****Shear Failure Criterion (Ref. IS: 6403)**

Soil Properties as in the Borehole 1 & 2

Depth of foundations	D = 150 cm
Width of foundation	B = 600 cm
Length of foundation	L = 600 cm
Angle of shearing resistance	$\phi = 35^\circ$
Cohesion	C = 0.0 kg/cm ²
Natural density	$\gamma = 1.97 \text{ g/cm}^3$
Submerged density	$\gamma_b = 0.97 \text{ g/cm}^3$

Bearing Capacity Factors $N_c = 46.12$ $N_q = 33.30$ $N_\gamma = 48.03$, $N_\phi = 3.69$ Shape Factors $S_c = 1.30$, $S_q = 1.20$, $S_\gamma = 0.80$ Depth factors $d_c = 1.10$, $d_q = 1.05$, $d_\gamma = 1.05$ Inclination factors $i_c = i_q = i_\gamma = 1.0$ Water table factor $W' = 0.5$

Safe bearing capacity (under submerged conditions)

$$q_s = 1/3 [2/3C N_c s_c d_c i_c + \gamma_b D_f (N_q - 1) S_q d_q i_q + 0.5 \gamma_b B N_\gamma S_\gamma d_\gamma i_\gamma W']$$

$$q_s = 3.92 \text{ kg/cm}^2 = 39.2 \text{ t/m}^2$$

Settlement Criterion

Bearing Pressure for 25 mm settlement

Where	N	=	N - value	=	60
W'	=	water table correction factor	=	0.5	
R_d	=	depth factor = $[1+0.33D/B] \leq 1.33$	=	1.08	
D	=	depth of foundation	=	1.50 m	
B	=	Width of Foundation	=	6.00 m	

Substituting the values in the above equation we get:

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$$q_n = 12.2 (N) [(B + 0.3)/B]^2 W' R_d$$

$$q_n = 435.8 \text{ kN/m}^2 = 43.6 \text{ t/m}^2$$

Allowable Bearing Pressure

The lower value of the allowable bearing pressure shall be adopted. Therefore, adopt an allowable bearing pressure of:

$$q_a = 3.9 \text{ kg/cm}^2 \text{ i.e. } 39.0 \text{ tons/m}^2$$

Note: q_a is a NET VALUE, Weight of backfill etc. need not be added to the loading except in case of filling above original Ground Level.



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APPENDIX – 2**CALCULATIONS FOR ALLOWABLE BEARING PRESSURE****Shear Failure Criterion (Ref. IS: 6403)**

Soil Properties as in the Borehole 1 & 2

Depth of foundations	D = 200 cm
Width of foundation	B = 600 cm
Length of foundation	L = 600 cm
Angle of shearing resistance	$\varphi = 35^\circ$
Cohesion	C = 0.0 kg/cm ²
Natural density	$\gamma = 1.97 \text{ g/cm}^3$
Submerged density	$\gamma_b = 0.97 \text{ g/cm}^3$

Bearing Capacity Factors $N_c = 42.15$ $N_q = 30.36$ $N_\gamma = 44.57$, $N_\phi = 3.69$ Shape Factors $S_c = 1.30$, $S_q = 1.20$, $S_\gamma = 0.80$ Depth factors $d_c = 1.13$, $d_q = 1.06$, $d_\gamma = 1.06$ Inclination factors $i_c = i_q = i_\gamma = 1.0$ Water table factor $W' = 0.5$

Safe bearing capacity (under submerged conditions)

$$q_s = 1/3 [2/3 C N_c s_c d_c i_c + \gamma_b D_f (N_q - 1) S_q d_q i_q + 0.5 \gamma_b B N_\gamma S_\gamma d_\gamma i_\gamma W']$$

$$q_s = 4.26 \text{ kg/cm}^2 = 42.6 \text{ t/m}^2$$

Settlement Criterion

Bearing Pressure for 25 mm settlement

Where	N	=	N - value	=	62
W'	=	water table correction factor	=	0.5	
R_d	=	depth factor = $[1+0.33D/B] \leq 1.33$	=	1.11	
D	=	depth of foundation	=	2.00 m	
B	=	Width of Foundation	=	6.00 m	

Substituting the values in the above equation we get:

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$$q_n = 12.2 (N) [(B + 0.3)/B]^2 W' R_d$$

$$q_n = 462.8 \text{ kN/m}^2 = 46.3 \text{ t/m}^2$$

Allowable Bearing Pressure

The lower value of the allowable bearing pressure shall be adopted. Therefore, adopt an allowable bearing pressure of:

$$q_a = 4.25 \text{ kg/cm}^2 \text{ i.e. } 42.5 \text{ tons/m}^2$$

Note: q_a is a NET VALUE, Weight of backfill etc. need not be added to the loading except in case of filling above original Ground Level.



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APPENDIX – 3**CALCULATIONS FOR ALLOWABLE BEARING PRESSURE****Shear Failure Criterion (Ref. IS: 6403)**

Soil Properties as in the Borehole 1&2

Depth of foundations	D = 200 cm
Width of foundation	B = 700 cm
Length of foundation	L = 700 cm
Angle of shearing resistance	$\phi = 35^\circ$
Cohesion	C = 0.0 kg/cm ²
Natural density	$\gamma = 1.97 \text{ g/cm}^3$
Submerged density	$\gamma_b = 0.97 \text{ g/cm}^3$

Bearing Capacity Factors $N_c = 42.15$ $N_q = 30.36$ $N_\gamma = 44.57$, $N_\phi = 3.69$ Shape Factors $S_c = 1.30$, $S_q = 1.20$, $S_\gamma = 0.80$ Depth factors $d_c = 1.11$, $d_q = 1.05$, $d_\gamma = 1.05$ Inclination factors $i_c = i_q = i_\gamma = 1.0$ Water table factor $W' = 0.5$

Safe bearing capacity (under submerged conditions)

$$q_s = 1/3 [2/3 C N_c s_c d_c i_c + \gamma_b D_f (N_q - 1) S_q d_q i_q + 0.5 \gamma_b B N_\gamma S_\gamma d_\gamma i_\gamma W']$$

$$q_s = 4.53 \text{ kg/cm}^2 = 45.3 \text{ t/m}^2$$

Settlement Criterion

Bearing Pressure for 25 mm settlement

Where	N	=	N - value	=	68
W'	=	water table correction factor	=	0.5	
R _d	=	depth factor = [1+0.33D/B] ≤ 1.33	=	1.09	
D	=	depth of foundation	=	2.00 m	
B	=	Width of Foundation	=	7.00 m	

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Substituting the values in the above equation we get:

$$q_n = 12.2 \text{ (N)} [(B + 0.3)/B]^2 W' R_d$$

$$q_n = 491.7 \text{ kN/m}^2 = 49.2 \text{ t/m}^2$$

Allowable Bearing Pressure

The lower value of the allowable bearing pressure shall be adopted. Therefore, adopt an allowable bearing pressure of:

$$q_a = 4.5 \text{ kg/cm}^2 \text{ i.e. } 45.0 \text{ tons/m}^2$$

Note: q_a is a NET VALUE, Weight of backfill etc. need not be added to the loading except in case of filling above original Ground Level.



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APPENDIX - 4**LIST OF IS CODES****LABORATORY TESTS**

- | | | | |
|----|--------------------------|---|--|
| 1. | IS 2720 (Part 1) - 1983 | : | Preparation of soil samples |
| 2. | IS 2720 (Part 2) - 1973 | : | Determination of water content |
| 3. | IS 2720 (Part 4) - 1985 | : | Grain Size Analysis |
| 4. | IS 2720 (Part 5) - 1985 | : | Atterberg Limits |
| 5. | IS 2720 (Part 11) - 1973 | : | Determination of shear
Strength parameters using
triaxial shear apparatus. |

FIELD INVESTIGATIONS

- | | | | | |
|----|-----------|------|---|--|
| 1. | IS 1498 : | 1970 | : | Classification and Identification
of soils for general engineering
purposes. |
| 2. | IS 1892 : | 1979 | : | Code of practice for sub surface
investigations for foundations. |
| 3. | IS 2131 : | 1981 | : | Method of standard penetration
test for soils. |
| 4. | IS 2132 : | 1986 | : | Code of practice for thin walled
tube sampling of soil. |

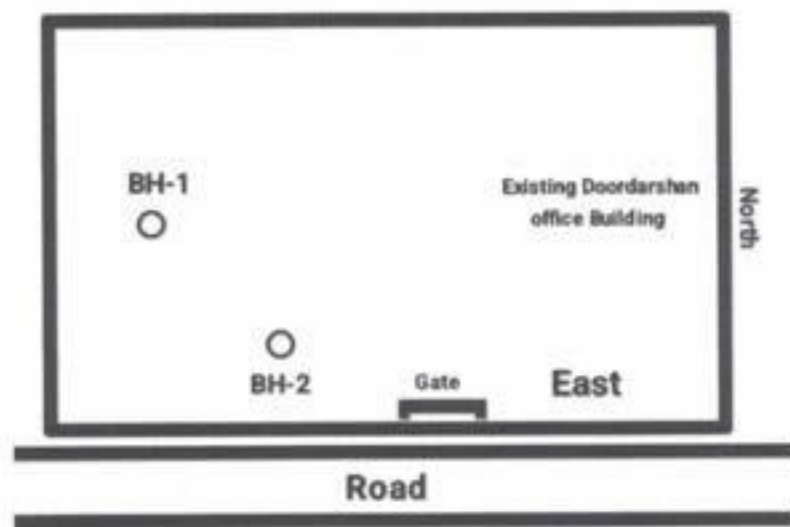
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LEGEND :

BH ○ : Boreholes



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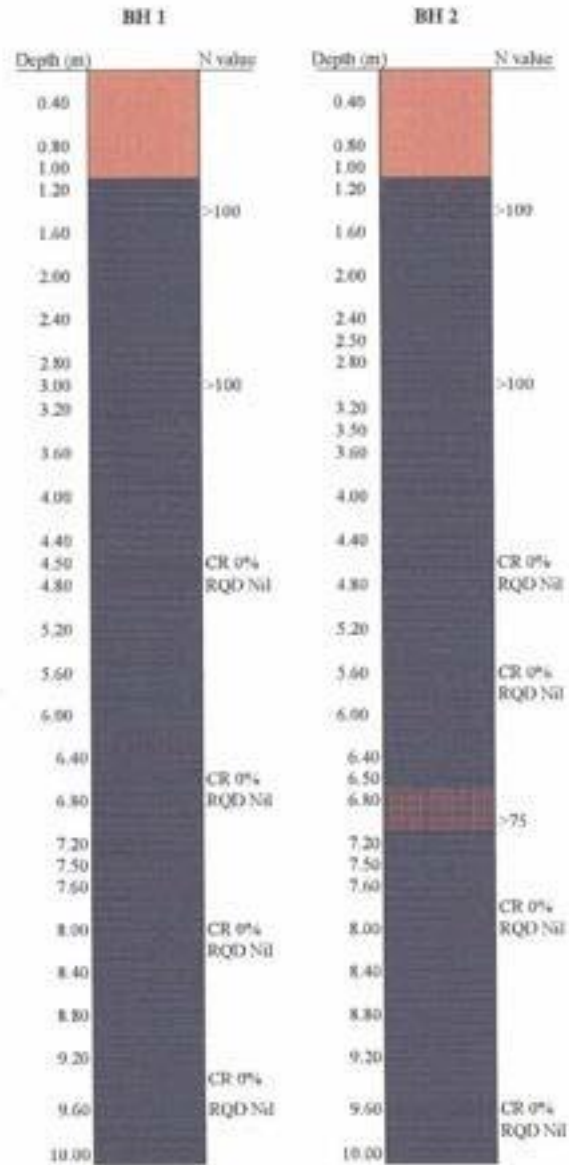
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FIGURE 2

COMBINED SOIL PROFILE



LEGEND



Clayey Silty Sand with Gravels



Soft Disintegrated Rock



Hard Granite Rock

>100

Observed N Value Seventy Blows for 2cm Penetration



Fig : Drilling of Borehole 1 in progress



Fig : Drilling of Borehole 2 in progress



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