



Tender fees **Rs.590/-**

भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA
O/o The Airport Director
Airports Authority of India,
Madurai Airport, Madurai- 625022.



E-TENDER DOCUMENT
(Two bid system)

For

**SUPPLY OF RF LINK AND ACCESSORIES FOR
DVOR SITE AT MADURAI AIRPORT.**

E-Tender NO.: AAI/MDU/CNS-17/DVOR /2022-23/1

E-tender portal: www.etenders.gov.in



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Ref: AAI/MDU/CNS-17/DVOR /2022-23/

Date: 11.05.2022.

SECTION –I

Notice Inviting e-Tender

[Through Government of India Central Public Procurement Portal (CPPP)]

Scope of Tender

S. No.	Name of the Work	Estimated Cost (Rs)
1.	Supply of RF Link and Accessories for DVOR site at Madurai Airport.	2,25,410/- (Including GST)

1. e-Tenders are invited through the CPPP Portal by Airport Director, Airports Authority of India, Madurai Airport, (Bid Manager), on behalf of Chairman, AAI from eligible contractors for the work of "Supply of RF Link and Accessories for DVOR site at Madurai Airport." at an estimated cost of **Rs. 2,25,410/- (Rupees Two Lakh Twenty-Five Thousand Four Hundred and Ten only) (Including 18 % GST)**
2. The tendering process is online at e-portal URL address www.etenders.gov.in . Aspiring bidders may go through the tender document by logging in the CPPP Portal. Prospective bidders are advised to get themselves acquainted for e-tendering participation requirements at "Instruction for Online Bid Submission", register themselves at CPPP portal, obtain 'User ID' & 'Password' and go through the 'self-help files' available in the home page after login to the CPPP portal "www.etenders.gov.in". They should also obtain Digital Signature Certificate (DSC) in parallel which is essentially required for submission of their application. The bidder may also take guidance from AAI Help Desk Support.
3. Tender fee of **Rs.590 /-** (inclusive of GST) is required to be paid online only through payment gateway provided at the CPP portal itself.
4. **EMD of Rs. 4,508/-** is required to be paid online only through payment gateway provided at the CPP portal itself.

NOTE: Tender fee & EMD in the form of cash/Demand Draft or any other form in offline shall not be accepted. For ONLINE PAYMENT bidder has to login to the portal <https://etenders.gov.in/> with valid User ID (i.e. User ID mapped with Digital Signature Certificate) and follow the process of participation to the tender.

5. Public procurement policy for Micro, small and medium enterprises registered under NSIC shall be followed as per the directives of Government of India prevailing at the date of acceptance. MSEs which are specified by the Ministry of Micro, Small and Medium Enterprises under MSME Act 2006 and Public Procurement Policy, 2012 as Manufacturing/Service Enterprises should have registered with NSIC (National Small Industries Corporation Limited) under its Single Point Registration Scheme (SPRS). Those firms shall submit / upload valid NSIC registration Certificate & Annexure "MSME – A" duly attested by Notary Public given in Annexure VI and upload in CPPP portal & send the originals by post to the following address failing which the tenders will be rejected outright.



6. Address for correspondence is
The Deputy General Manager (CNS),
O/of The Airport Director,
Airports Authority of India,
Madurai Airport – 625 022.
7. AAI makes no representation or warranty as to the completeness or accuracy of any response, nor does AAI undertake to answer all the queries that have been posted by the Bidders. In order to provide reasonable time to bidders to take the amendments into account for preparing their bids, AAI may, at its discretion, extend the deadline for the submission of bids suitably.
8. Following **2 bids** shall be submitted through online at CPPP portal by the bidder.
- a. **Technical e-bid through CPPP Portal: -**
Experience & Technical requirements:
i. The bidder shall also upload all documents as detailed in **Section II clause 2** of Tender document in CPPP portal.
ii. Bidder shall upload e-tender on e-Portal well in advance to avoid last minute hassles. AAI shall not entertain any queries on such subject after last date of downloading e-tender document.
- b. **Financial e-bid through CPPP Portal: -**
All rates shall be quoted in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ (Bill of Quantity) format with the tender document, then the same is to be downloaded and to be filled by all the bidders.
Bidders are required to download the BOQ file in MS Excel format, open it and complete the light blue coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder).
No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
- Note: Any clarification on technical requirements can be obtained from CNS In-Charge, Madurai @ email id cnsicvond@aai.aero. Kindly allow at least one working day time for reply.**
9. **CPPP under GePNIC, Help Desk Services**
- a. For any technical related queries for e-bidding please call the Helpdesk. The 24 x 7 Help Desk Number 0120-4200462, 0120-4001002.
- Note-** Bidders are requested to kindly mention the URL of the Portal and Tender Id in the subject while emailing any issue along with the Contact details. For any issues/ clarifications relating to the tender(s) published kindly contact the respective Tender Inviting Authority.
Tel: 0120-4200462, 0120-4001002. **Mobile:** 91 8826246593 **E-Mail:** support-eproc@nic.in
- b. **For any Policy related matter / Clarifications Please contact Dept of Expenditure, Ministry of Finance. E-Mail: cppp-doe@nic.in.**
- c. **For any Issues / Clarifications relating to the publishing and submission of AAI tender(s).**
In order to facilitate the Vendors / Bidders as well as internal users from AAI, Help desk services have been launched between 0800-2000 hours for the CPPP under GePNIC <http://etenders.gov.in>. The help desk services shall be available on all working days (Except Sunday and National Holiday) between 0800-2000 hours and shall assist users on issues related to the use of Central Public Procurement Portal (CPPP).



Before submitting queries, bidders are requested to follow the instructions given in **"Guidelines to Bidders"** and get their computer system configured according to the recommended settings as specified in the portal at **"System Settings for CPPP"**.

d. In case of any issues faced, the escalation matrix is as mentioned below:

SL. No.	Support Persons	Escalation Matrix	E-Mail Address	Contact Numbers	Timings*
i.	Help Desk Team	Instant Support	eprochelp@aai.aero	011-24632950, Ext-3512 (Six Lines)	0800-2000 Hrs. (MON - SAT)
ii.	Jr. Exe. (IT)	After 4 Hours of Issue	sanjeevkumar@aai.aero	011-24632950, Ext-3505	0930-1800 Hrs. (MON-FRI)
iii.	AGM(IT)	After 12 Hours	snita@aai.aero	011-24632950, Ext-3523	0930-1800 Hrs. (MON-FRI)
iv.	General Manager (IT)	After 03 Days	gmitchq@aai.aero	011-24657900	0930-1800 Hrs. (MON-FRI)

Critical dates for online submission in CPPP portal by the bidder are given below:

CRITICAL DATE SHEET	
Published Date	11.05.2022
Bid Document Download/Sale Start Date	11.05.2022 (18:00 Hrs.)
Clarification Start Date	12.05.2022 (10:00 Hrs.)
Clarification End Date	20.05.2022 (15:00 Hrs.)
Bid submission Start Date	21.05.2022 (10:00 Hrs.)
Bid Submission End Date	31.05.2022 (15:00 Hrs.)
Technical Bid Opening Date	01.06.2022 (15:00 Hrs.)
Financial Bid Opening Date	08.06.2022 (10:00 Hrs.) (Change in opening date, if any will be intimated through CPP portal only)

CNS-In-Charge

कृते विमानपत्तननिदेशक, भारतीय विमानपत्तन प्राधिकरण, मदुरैहवाईअड्डा
for AIRPORT DIRECTOR, AIRPORTS AUTHORITY OF INDIA, MADURAI AIRPORT.

Dt: 11/05/2022



SECTION – II
INSTRUCTIONS TO BIDDERS

1. DEFINITIONS

- 1.1 "AAI / The Buyer" means the Airports Authority of India.
- 1.2 "The Bidder / Vendor" means the individual or firm who participates in this tender and uploads its bid.
- 1.3 "Project Leader AAI" means the AAI executive responsible for signing all documents from AAI side and shall coordinate all the activities of the project with the bidder / contractor.
- 1.4 "The Supplier / Contractor" means the individual or firm taking up the work as defined under the Notice Inviting Tender.
- 1.5 "The Works Order" means the order placed for **Supply of RF Link and Accessories for DVOR site at Madurai Airport.**
- 1.6 "The Contract" means the agreement signed between the Buyer and the Contractor as per the terms and conditions contained in the Work Order.
- 1.7 "The Contract Price" means the price payable to the Contractor under the Work Order for the full and proper performance of its contractual obligations.
- 1.8 "Non-responsive Bid" means a bid, which is not uploaded as per the instructions to the bidders or Earnest Money Deposit has not been attached, or the required data has not been provided with the Bid or intentional errors have been committed in the Bid.

2. ELIGIBILITY CRITERIA

Digitally signed, scanned copies of the following documents to be uploaded in the Technical Bid folder of e- Tender in CPPP.

- a. Copy of the **PAN** card and **GST** Registration number.
- b. Scanned copy of online payment against Tender processing fee and **EMD**.
Note: Micro, small and medium enterprises registered under NSIC who wish to claim exemption shall submit and upload in CPPP portal copy of valid NSIC registration Certificate & Annexure "MSME – A" duly attested by Notary Public as given in Annexure VI and send the originals by post.
- c. Proof of work executed in the last seven years. Vendor should have successfully completed similar works **as given in scope of work** in Government Departments or Public Undertakings or Private sectors (within India), meeting any one of the following criteria.
 - One order of value more than or equivalent to 80% of estimated cost given in NIT.
 - Two orders each of value more than or equivalent to 50% of estimated cost given in NIT
 - Three orders each of value more than or equivalent to 40% of estimated cost given in NIT.
- d. Financial turn over for the last three years (should be supported with abridged balance sheet and profit & loss account.) Firms showing continuous losses during the last three years in the balance sheet shall be summarily rejected.
- e. Digitally Signed copy of original tender.
- f. **Valid OEM Authorization / Dealership for Point to Point RF Link and Gigabit Ethernet LAN Switches.**
- g. Signed & scanned copies of Annexures **I, II, III & V. (VI, if claiming exemption).**



3. PRICE BID:

- a. The bidder shall quote only one price for one item of same specification against the nomenclature in Price bid. The sample price schedule will be as per Schedule-A.
- b. The prices quoted for "**Supply of RF Link and Accessories for DVOR site at Madurai Airport.**" shall be base rate with applicable GST %.
- c. The bidder shall quote as per price schedule given in **Schedule-A** for all the items in the price bid. **In case the bidder not quoting price for all the items or not quoting for few items his price bid will not be considered.**
- d. The prices quoted by the bidder shall remain firm during the entire period of contract and shall not be subject to variation on any account.
- e. Post offer discount, if any, offered by the bidders shall not be entertained. Bidders' planning to offer discount shall therefore modify their offers suitably while quoting and shall quote clearly net price. However, such discounts from the firm declared as L1 on the basis of post bid negotiations if any shall be considered and such negotiated offer when agreed by AAI & the bidder shall form a part of the Price Bid.
- f. Taxes as applicable and in force will be paid by as per prevailing rules.

4. COST OF BIDDING

The Bidder shall bear all costs associated with the preparation and submission of the bid. The Buyer, will in no case, be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

5. THE BID DOCUMENTS

BID DOCUMENTS

The required materials, bidding procedures and contract terms are prescribed in the Bid Documents. The Bid Documents include: -

- Notice Inviting e-Tender
- Instructions to Bidders
- General Terms & Conditions of the Contract
- Special terms and conditions
- Annexures I to VI
- Price Schedule- (Schedule-A)

The Bidder is expected to examine all instructions, forms, terms and specifications in the Bid Documents. Failure to furnish all information required as per the Bid Documents or submission of bids not substantially responsive to the Bid Documents in every respect will be at the bidder's risk and shall result in rejection of the bid.

6. AMENDMENTS TO BID DOCUMENTS

- a. At any time, prior to scheduled date of submission of bids, AAI if it deems appropriate to revise any part of this tender or to issue additional data to clarify and interpretation of provisions of this tender, it may issue addendum / corrigendum to this tender. Any such addendum / corrigendum shall be deemed to be incorporated by this reference into this tender and binding on the bidders. Addendum / corrigendum will be notified through CPPP portal at www.etenders.gov.in
- b. If Bidder needs to delete and create a new bid response in case AAI issues amendment /corrigendum after bidder has created his response, and there is change in line item (new item added or existing item deleted) or in the price components of any line item he may do so.



7. PERIOD OF VALIDITY OF E-TENDER (BID)

The **E- tender (Bid)** shall remain valid for a minimum of **180 days from the date of opening of the bid**. The bidder shall not be entitled, to revoke or cancel the offer or to vary any term thereof, during the said period of validity without the **consent in writing of AAI**. In case of the bidder revoking or cancelling the offer or varying any term in regard thereof, the bidder's earnest money deposit shall be forfeited.

In exceptional circumstances, the Buyer may request the bidder's consent for an extension to the period of bid validity. The request and the responses thereto shall be made in writing.

8. E-TENDER BID OPENING AND EVALUATION

- a. To shortlist technically qualified bidders, Technical bid shall be scrutinized by AAI to ensure whether the same are in conformity to Technical & Operational Requirement. Bidders shall provide complete information to substantiate compliance of the technical specification listed in the tender. In case of incomplete compliance statement or inadequate information, tenders shall be finalized on the basis of the information available. It shall, therefore, be in the bidders' interest to give complete and comprehensive technical particulars while submitting the bid.
- b. AAI may seek clarification on technical details or any other information deemed necessary.
- c. Tenders meeting Technical bid criteria as specified herein shall only be informed and considered for opening and evaluation of Price bid.

9. OPENING OF THE FINANCIAL BIDS:

- a. Financial Bids of those bidders who qualify in Technical bid evaluation shall be opened by AAI. Date and Time of opening of financial bid shall be notified to technically eligible bidders. Bidders can monitor the bid opening process on-Line.
- b. No correspondence shall be entertained from the bidders after opening of Financial Bid of the Tender.

10. CONTACTING THE BUYER:

Canvassing in any form in connection with the tenders is strictly prohibited and the tenders uploaded by the contractors who resort to canvassing are liable for rejection.

No bidder shall try to influence the Buyer directly or through external source on any matter relating to its bid, from the time of publication of e-Tender till the time the contract is awarded.

Any effort by a bidder to influence the Buyer in the bid evaluation, bid comparison or contract award decisions shall result in the rejection of the bid, and such actions will be considered as bad performance for future Projects.

11. AWARD OF CONTRACT

- a. The acceptance of the tender will be intimated to the successful bidder by AAI.
- b. AAI shall issue the work order to successful bidder in duplicate. Successful bidder shall return one copy of work order within one week as a confirmation to acceptance of terms and conditions of work order duly signed by him on each page of the order.
- c. Successful bidder has to enter into an agreement with AAI on terms and conditions mentioned in the tender, its corrigendum and technical queries and responses against which work order has been issued.
- d. AAI shall be the sole judge in the matter of award of contract and the decision of AAI shall be final and binding.



12. RIGHT TO ACCEPT OR REJECT THE TENDERS

- a. The right to accept the tender in full or in part/parts will rest with AAI. However, AAI does not bind itself to accept the lowest tender and reserves to itself the authority to reject any or all the tenders received without assigning any reason whatsoever.
- b. Tenders, not accompanied with prescribed information or incomplete in any respect and/or not meeting prescribed conditions, shall be considered non-responsive and are liable to be rejected.
- c. The Buyer reserves the right to accept or reject any bid or a part of the bid or to annul the bidding process and reject all bids, at any time prior to award of contract without assigning any reason whatsoever and without thereby incurring any liability to the affected bidder or bidders on the grounds for the Buyer's action.
- d. If the bidder gives wrong information in his E-Tender, AAI reserves the right to reject such tender at any stage or to cancel the contract, if awarded, and forfeit the Earnest Money.
- e. Should a bidder have a relation or relations employed in AAI in the capacity of an officer, the authority inviting tender, shall be informed. In the event of failure to inform and in a situation where it is established that the relation or relations employed in AAI has / have tried to influence the tender proceedings then AAI at its sole discretion may reject the tender or cancel the contract and forfeit the Earnest Money.
- f. Any correspondence after the opening of the technical bid, from the bidder, regarding the bid unless specifically sought by AAI shall not be considered. Such post bid offers / clarifications may be liable for action as per clause 10 of this section.

13. ANNULMENT OF AWARD:

Failure of the successful bidder to comply with the requirement of Clause 11 of this section shall constitute sufficient ground for the annulment of the award and forfeiture of the EMD in which event the Buyer may make the award to any other bidder at his discretion or call for new bids.



SECTION – III
GENERAL TERMS & CONDITIONS OF THE CONTRACT

1. PURPOSE & SCOPE

This document sets out the terms & conditions to be met in connection with the **"Supply of RF Link and Accessories for DVOR site at Madurai Airport."** for the work as per details given in the notice inviting e-tender with specifications as in **Annexure-V**.

2. COMPLIANCE

- a. The unconditional acceptance of all the terms & conditions of the E-Tender has to be uploaded through a letter. The format of the letter is attached at Annexure-II.
- b. The submission of the tender will imply acceptance of all the tender conditions by the bidder laid in tender document including all the Annexure & Schedules to the tender document.
- c. The compliance to the Technical Specifications as in Annexure V and terms & conditions should be supported by authenticated documentation wherever required.
- d. The submission of unconditional acceptance as described above is essential for the tender evaluation. The failure to upload the unconditional acceptance statement in the said format shall result in the bid being rejected.

3. Payment Terms

The payments shall be released to the Contractor on submission of documents as below.

- a. Bills (Invoices) in triplicate.
- b. Satisfactory report by the CNS-In-Charge or their representative for performance.
- c. Performance Bank Guarantee.
- d. Proof for remittance of remittance of GST amount in GST portal. (GSTR 3B)

All payments shall be through ECS. To enable ECS the vendor shall give the bank account and other details as described in Annex IV.

4. EARNEST MONEY

- i. Earnest Money Deposit of the technically unsuccessful bidders shall be returned after the completion of the technical evaluation process.
- ii. The EMD of the successful bidder will be returned after receipt of Performance Bank Guarantee (PBG).
- iii. The EMD amount shall be forfeited in the following events:
 - If the successful bidder fails to enter into a contract with AAI within 30 calendar days after the receipt of the work order.
 - If the successful bidder fails to submit the Contract Performance Bank Guarantee as Stipulated in Annexure –IV.
 - In the event of not accepting the conditions of the contract even after agreeing to do so and up loading the letter of un-conditional acceptance of terms as per letter in Annexure-II.
 - No interest or any other expenses, whatsoever, will be payable by AAI on the EMD in any manner.
- iv. After the opening of tender, if Bidders withdraw or modify their Bid during the period of validity of tender (including extended validity of tender) specified in the tender documents OR if, after the award of work, fail to sign the contract, or to submit performance guarantee before the deadline defined in the tender documents, they



shall be suspended for 01 (one) year and shall not be eligible to bid for AAI tenders from date of issue of suspension order.

- v. If the credential submitted by the firm is found to be incorrect or have some discrepancy at any stage (before or after award of the work) which disqualifies the firm, then the EMD (if applicable) submitted by the Firm will be forfeited and the firm will be debarred from tendering for a period not exceeding 3 (three) years apart from any other appropriate / legal action as deemed fit.

5. SECURITY DEPOSIT

The Contractor, whose tender is accepted, will be required to furnish a Security Deposit for the due fulfillment of this contract, which will amount to a sum equal to @ 3% of contract Value within 30 calendar days from the date of issue of Award Letter.

- a) The Security Deposit shall be furnished in the form of Demand Draft drawn in favour of 'Airports Authority of India', payable at 'Madurai' from a Nationalized / Scheduled Bank (but not from Co-operative or Gramin Bank). Alternatively, the Contractor can submit a Bank Guarantee as per AAI's prescribed format for the entire amount of Security Deposit. The Bank guarantee shall be submitted within 30 calendar days from the date of issue of Work Order and it will be valid till 90 days after the end of the expiry of the contract.
- b) **The bank details of AAI are provided below, for those the agencies who will be submitting the Security deposit in the form of Bank Guarantees.**

CORPORATE NAME : AIRPORTS AUTHORITY OF INDIA
BANK NAME : ICICI BANK
IFSC CODE : ICIC0000007
BG ADVISING MESSAGE : IFN 760COV (BG ISSUE)
: IFN 767COV (BG AMENDMENT)
UNIQUE IDENTIFIER CODE : AAIMADURAI
(TO BE MENTIONED IN FIELD 7037 OF THE BG ADVISING MESSAGE CODE)

While submitting the documents to BG issuing bank, the vendor/customer/concessionaire shall also submit letter to the issuing bank as per the format mentioned in the Annexure-IV.

The Original B.G documents should be submitted to our office within 30 calendar days from the date of issue of Award Letter

- c) In case the Contractor fails to submit the Bank Guarantee within stipulated period, interest at 12% p.a. on Bank Guarantee amount would be levied (non-refundable) for delayed period of submission and shall be deducted from the first bill payable to the Contractor.
- d) In case, the Contractor fails to submit bank guarantee within 60 days from the date of issue of Award Letter/Work Order, AAI reserves the right to (if applicable) cancel the order, besides suspending the Contractor for one year, who shall not be eligible to bid for AAI tenders from date of issue of suspension order. However, AAI may accept the BG with delay by levying payable interest in case of justified reasons.
- e) After expiry of the contract, the security deposit held by the AAI will be released to the Contractor within a period of three months (90 days) subject to realization of dues, if any to be made from the Contractor. No interest or any other expense whatsoever on Security Deposit is payable by AAI.



- f) AAI shall have unqualified option to forfeit the Security Deposit if the Contractor failed to carry out the services as per the terms and condition of the contract without prejudice to other rights and remedies available to AAI. Any sum of outstanding dues against the Contractor including any amount on acceptance and liquidated damages shall be recovered from the Security Deposit. AAI shall also have the rights to forfeit or appropriate towards the damages or losses that may be sustained by AAI due to any act/ commission or defaults by the Contractor.

6. CORRESPONDENCE

All correspondence would be directly with the bidder and correspondence through agents will not be entertained.

7. PATENTS, SUCCESSFUL BIDDER'S LIABILITY & COMPLIANCE OF REGULATIONS

- a. Successful bidder shall protect and fully indemnify the AAI from any claims for infringement of patents, copyright, trademark, license violation or the like.
- b. Successful bidder shall also protect and fully indemnify the AAI from any claims from successful bidder's workmen/employees, their heirs, dependents, representatives etc. or from any person(s) or bodies/ companies etc. for any act of commission or omission while executing the order.
- c. Successful bidder shall be responsible for compliance with all requirements under the laws and shall protect and indemnify completely the AAI from any claims/penalties arising out of any infringements.

8. SETTLEMENT OF DISPUTES

If a dispute of any kind whatsoever arises between the AAI and the Contractor in connection with or arising out of the Contract or the execution of the works, whether during the execution of the Works or after their completion and whether before or after repudiation or after termination of the contract, including any disagreement by either party with any action, inaction, opinion, instruction, determination, certificate or valuation of the Project Leader or his nominee, the matter in dispute shall in first place be referred to the Airport Director, AAI, Madurai who shall act as the conciliator on the matter. The disputes will firstly be settled by the Conciliator, failing which any party may invoke arbitration clause.

Unless the Contract has already been repudiated or terminated or frustrated the Contractor shall in every case, continue to proceed with the works with all due diligence and the Contractor and AAI shall give effect forthwith to every decision of the Project Leader or his nominee unless and until the same shall be revised, as hereinafter provided, by the Conciliator or in an Arbitral Award.

9. ARBITRATION AND LAW.

All disputes and differences arising out of or in any way touching or concerning this contract (except where otherwise provided for in the contract) shall be referred to the sole arbitration of the Executive Director (CNS), AAI, Rajiv Gandhi Bhavan, New Delhi. The award of the Arbitrator shall be final and binding on both the parties. The Arbitration and Conciliation Act, 1996 shall be applicable. It will be no bar if the Arbitrator appointed as aforesaid is or has been an employee of the Authority and the appointment of the Arbitrator will not be challenged or be open to question in any Court of Law, on this account Indian laws shall govern this contract.



10. TERMINATION FOR DEFAULT & RISK PURCHASE

- a. The AAI may, without prejudice to any other remedy for breach of contract, by written notice of one month of default, sent to the Contractor, terminate this Contract in whole or in part in any or the following events if the Contractor fails to perform any other obligation(s) under Contract.
- b. If the Contractor, in either of the above circumstances, does not remedy his failure within a period of 30 days (or such longer period as AAI may authorize in writing) after receipt of the default notice from AAI.
- c. As a penalty to the Contractor the AAI shall encash Contract Performance Bank Guarantee. The AAI in such case shall pay for the assessed value of the executed work that can be used. No payment shall be made for the efforts put in by the Contractor in case the same are of no value to AAI. The balance unfinished work of the project will be got done by fresh tendering on Contractor's risk and that extra expenditure will be recovered.

11. TERMINATION FOR INSOLVENCY

The AAI may at any time terminate the Contract by giving written notice of one month to the contractor, without compensation to the Contractor, if the Contractor becomes bankrupt or otherwise insolvent as declared by the competent court provided that such termination will not prejudice or affect any right or action or remedy which has accrued or will accrue thereafter to AAI. In the event of termination for penalty to the contractor Clause 9-c shall be applicable.

12. FORCE MAJEURE

- a. AAI may grant an extension of time limit set for the completion of the work in case the timely completion of the work is delayed by force majeure beyond the contractor's control, subject to what is stated in the following sub paragraphs and to the procedures detailed there in being followed. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, flood, storms etc.), acts of states, the direct and indirect consequences of wars (declared or un-declared), hostilities, national emergencies, civil commotion and strikes (only those which exceed a duration of ten continuous days) at successful Bidder's factory. The successful bidder's right to an extension of the time limit for completion of the work in above mentioned cases is subject to the following procedures.
- b. That within 10 days after the occurrence of a case of force majeure but before the expiry of the stipulated date of completion, the bidder informs the AAI in writing about the occurrence of Force Majeure Condition and that the Bidder considers himself entitled to an extension of the time limit.
- c. That the contractor produces evidence of the date of occurrence and the duration of the force majeure in an adequate manner by means of documents drawn up by responsible authorities.
- d. That the contractor proves that the said conditions have actually interfered with the carrying out of the contract.
- e. That the contractor proves that the delay occurred is not due to his own action or lack of action.
- f. Apart from the extension of the time limit, force majeure does not entitle the successful bidder to any relaxation or to any compensation of damage or loss suffered.



13. START OF CONTRACT AND AGREEMENT.

The Contract shall be considered as having come into force from the date of issue of work order by AAI. The successful bidder has to enter into an agreement with AAI within 30 days of award of contract.



SECTION -IV
SPECIAL CONDITIONS OF CONTRACT:

1. **Rates:** The prices quoted shall remain firm throughout the period of contract.
2. **Standards**
 - 2.1. All designs, codes, developing platforms, developing techniques and workmanship shall be in accordance with the highest accepted international standards for this type of work.
 - 2.2. The bidder shall also state, where applicable, the National or other International standard(s) to which the whole, or any specific part, of the system, software, or training complies.
 - 2.3. The requirements given in this document are firm and no deviation of any kind is acceptable.
3. **Completion Period:** The completion period of the Contract is **45 days** and will be reckoned from the date of issue of Work Order.
4. **Precedence of Conditions of Contract:** These conditions of the Contract shall be read in conjunction with the "General Terms and Conditions of Contract" issued together with the amendments, corrections, enclosures, etc., along with the Tender Document and the provision of these conditions shall take precedence over the general conditions.
5. **Income Tax/Work Contract/Cess Deduction:** The Taxes will be recovered from the bill of the Contractor as per the prevailing Government Rules at the time of payment.



Company/Firm details.

(To be uploaded in Technical bid folder)

Sl. No.	Details	To be furnished by the vendor
01.	Name &Address of the firm	
02.	PAN No.*	
03.	GST Registration No.*	
04.	Official E-Mail id of the firm.	
05.	Type of organization & year of incorporation. *	
06	Correspondence address with contact person’s name, telephone number, mobile number etc.	

**Relevant documents duly self-certified should be attached as Proof.*

**Signature of the authorized person with
Company seal**



UN CONDITIONAL ACCEPTANCE LETTER
(To be uploaded along with bid document)

To,

The Airport Director
Airports Authority of India,
Madurai Airport,
Madurai- 625022.

Sub: UNCONDITIONAL ACCEPTANCE OF AAI'S TERMS & TENDER CONDITIONS.

Ref No: e-Tender No. **AAI/MDU/CNS-17/DVOR /2022-23/1**

Name of Work: "Supply of RF Link and Accessories for DVOR site at Madurai Airport. "

Dear Sir,

1. The tender document for the works mentioned above have been provided to me/us by Airports Authority of India and I/we hereby certify that I/we have inspected the sites and read the entire terms and conditions of the tender documents made available to me/us, which shall form part of the contract agreement and I/we shall abide by the conditions/Clauses contained therein.
2. I/We hereby unconditionally accept the tender conditions of AAI's tender documents in its entirety for the above works.
3. It is clarified that after unconditionally accepting the tender conditions in its entirety, it is not permissible to put any remarks / conditions in the tender enclosed the same has been followed in the present case. In case any provisions of this tender are found to be violated after opening Technical & Price bids, I / we agree that the tender shall be rejected and AAI shall without prejudice to any other right or remedy be at liberty to forfeit the full said earnest money absolutely.
4. I/we declare that I/we have not paid and will not pay any bribe to any officer of AAI for awarding this contract at any stage during its execution or at the time of payment of bills and further if any officer of AAI asks for bribe/gratification, I /we will immediately report it to the appropriate authority in AAI.
5. It is declared that our company/partners or its Directors have not been black listed or any case is pending or any complaint regarding irregularities is pending, in India or any Indian State/Central Governments Departments or Public Sector Undertaking of India.

Yours faithfully,

Date:

(Signature of the bidder with rubber stamp)



PROFORMA FOR e-PAYMENT

To,
The Airport Director
Airports Authority of India,
Madurai Airport,
Madurai- 625022.

Subject: Request for E-Payment.

Sir,
Following particulars are given for effecting E-payment in respect of our claim / Bill.

1	Name of Company	
2	Company Address	
3	City	
4	Postal Code	
5	Telephone No.	
6	Fax no	
7	Mobil No	
8	Email-Id	
9	PAN Number of the Company	
10	Company Bank A/c Number	
11	Name of Bank / Branch	
12	Branch Code	
13	Bank Address	
14	City	
15	Mode of Payment	
16	RTGS/NEFT details	

We also enclose herewith a cheque duly cancelled of our bank A/c.

Thanking You,

Yours Faithfully

Signature of the authorized person with Company seal

Note: Any erroneous information may lead to harmful transaction for which either AAI or the Bank will not be liable / responsible.



ANNEXURE IV

(Request Letter: Transmission of Bank Guarantee Cover Message to be submitted by applicant to BG issuing Bank)

Date: _____

The Manager,

(Bank)

(Branch)

Sub: Inclusion of unique identifier code of AAI while transferring BG cover messages where beneficiary bank is ICICI Bank (IFSC-ICIC00000007).

Dear Sir/Ma'am,

I/We, _____, request you to include unique identifier AAI MADURAI in field 7037 of the SFMS cover messages IFN COV 760 (for BG issuance) and IFN COV 767(for BG amendment) while transmitting the same to the beneficiary bank (ICICI Bank- IFSC-ICIC00000007).

Thanking You,

(Vendor/Customer/Concessionaire)

**Bill of Materials and Technical Specifications****Name of Work: "Supply of RF Link & Accessories for DVOR site at Madurai Airport".****TENDER NO: AAI/MDU/CNS-17/DVOR/2022-23/1****a) Bill of Materials**

Sr. No.	ITEM DESCRIPTION	Quantity/ Units	Make & Model of offered item.
1.	Point to point RF Link 4.6-6.4 GHz, 8dbi Modular Ratio, for PTMP or PTP with n5-X Antennas (4.9-6.4 GHz Modular Twist on Antenna, 400mm dish for RF Link, 25dBi gain	02 No	
2.	16 Port Gigabit Ethernet LAN Switch Ethernet Switch	02 No	
3.	8 Port Ethernet LAN Switch	02 No	
4.	CAT6 SFTP Cable (LSZH SHEATH)	500 meters	
5.	Moxa Serial to Ethernet Convertor 1 Port device server, 10/100 M Ethernet, RS-232, DB9 male, 12 -48 VDC with adapter	04 No	
Consignee & Delivery Details		Deputy General Manager (CNS), Airports Authority of India, Madurai Airport, Perungudi post, Madurai – 625022, Landline: 0452-2690306	

DETAILED SCOPE OF WORK

S. No	Specifications	Compliance: Mark Yes or No as applicable.
Point to Point RF Link		
1	The wireless solution being quoted should comply with all regulations and guidelines of Wireless Planning Commission (WPC). Offered equipment shall be compliant with GSR 38 (E) dated 19th January 2007 and GSR 1048 (E) dated 18th October 2018	Yes /No
2	The Radio should be able to operate in a LOS and near LOS environment to ensure flexibility in choosing deployment locations.	Yes /No
3	The Radio should support OFDM MIMO 2x2 with BPSK, QPSK, 16QAM, 64QAM and 256QAM modulations.	Yes /No



4	Radio should have the capability to dynamically adapt the modulation level depending on the link environment to ensure best performance and throughput.	Yes /No
5	The Radio should support Channel Resolution of 5 MHz	Yes /No
6	The Radio should support Channel Bandwidth of 20, 40, and 80 MHz and must be user configurable	Yes /No
7	System should be capable to delivering more than 600 Mbps of actual/usable aggregate throughput.	Yes /No
8	The latency of the Radio link should be less than 3ms	Yes /No
9	The Radio should support a maximum output power of 27 dBm	Yes /No
10	The local Radio should set Transmit Power of remote Radio	Yes /No
11	The Radio should be configurable to maximum Tx Power as per EIRP restricted by the country of operation. The Tx power must be configured in step sizes of 1 dBm.	Yes /No
12	The Radio should have Channel Accuracy of ± 10 PPM	Yes /No
13	The Radio should support TDD Technology	Yes /No
14	The Radio should support TDMA wireless protocol	Yes /No
15	The Radio should support TDMA Window sizes of 2, 4 and 8 milliseconds.	Yes /No
16	The Radio link should support Symmetrical and Asymmetrical Bandwidth of 50/50, 75/25, 25/75 and Auto. The parameter must be user configurable.	Yes /No
17	The Radio should be an all outdoor solution consisting of a single unit.	Yes /No
18	The Radio should be an all outdoor solution made of metal material	Yes /No
19	The system should have a throughput spectral efficiency of at least 8.5 bits/Hz or more.	Yes /No
20	The Radio link should have automatic interference mitigation features to achieve a balance between link reliability and capacity by automatically adjusting frequency, channel width, transmit power, etc. in response to interference when detected.	Yes /No
21	The Radio should support automatic channel selection in conformance with the country of operation.	Yes /No
22	The Radio must have a built-in, non-intrusive Spectrum analyzer to find the best available frequency for use. It should also have the capability to show the spectrum of both sides of the radio link (without service interruption spectrum analyzer)	Yes /No
23	The Radio Should support Forward Error Correction (FEC) of 1/2, 2/3, 3/4 and 5/6.	Yes /No
24	The Radio should support integrated antenna of at least 8dBi	Yes /No
25	The Radio should support external antenna of at least 25dBi	Yes /No
26	The Radio should support LAN Interface 10/100/1000 Base T interface with Auto negotiation (IEEE802.3)	Yes /No
27	The Radio should support MTU size up to 3200 bytes frame size.	Yes /No
28	The Radio should support Framing/Coding IEEE802.3/U standard on Ethernet Interface to the network	Yes /No
29	The average power consumption of Radio should be no more than 10 W	Yes /No
30	The outdoor The Radio should confirm to Ingress Protection of IP55 without external enclosures.	Yes /No



31	Operating temperature for the outdoor radio should be 0°C to 55°C.	Yes /No
32	Operating humidity for the outdoor radio should be 5 to 100% condensing.	Yes /No
33	The Radio should support safety standards - UL/EC/EN/ 60950-1 + CSA-22.2	Yes /No
34	The Radio should support the lightening protection as per EN 61000-4-5.	Yes /No
35	The Radio should support Shock & Vibration: ETS 300-019-2-4 class 4M5	Yes /No
36	The Radio should support Front-to-Back Ratio of at least 40dB	Yes /No
37	The Radio should support Front-to-Side Ratio of at least 45dB	Yes /No
38	The Radio should support FCC Part 15.	Yes /No
39	The Radio should support System Power Method: Passive POE (24-56 VDC)	Yes /No
40	The PoE unit should support 1x10/100/1000 Mbps Ethernet LAN ports, Auto negotiation IEEE 802.3u.	Yes /No
41	Management	Yes /No
42	The Radio should support SNMP v1, v2 for management application.	Yes /No
43	The Radio should support HTTP/S for management application.	Yes /No
44	The Radio should support REST API for management application.	Yes /No
45	The Radio should support Syslog for management application.	Yes /No
46	The Radio should have the option to be managed in the cloud.	Yes /No
47	The Radio should support local and remote installation, Configuration, Fault management through HTTP/S using single computer for installation and commissioning.	Yes /No
48	The Radio should support Factory and/or Device Configuration Reset options.	Yes /No
49	The Radio should have the capability to download a support file from the Radio for diagnostics and troubleshooting to be used by manufacturer support engineers.	Yes /No
50	Software upgrade	Yes /No
51	The Radio should support over the air firmware/software upgrade	Yes /No
52	The Radio/NMS should support Bulk software upgrade of multiple sites.	Yes /No
53	System should support software backup and restore functionality	Yes /No
54	The Radio should have features for fine link alignment.	Yes /No
55	The Radio should have built-in tools to perform a throughput, Trace Route, Ping, etc. test for troubleshoot the wireless link.	Yes /No
56	The Radio should support Quality of Service according to IEEE 802.1p, TOS/Diff serve and four Levels of Queues to prioritize traffic for Voice, Video, Data and Best effort.	Yes /No
57	The Radio should support user defined VLAN for management and VLAN passthrough for user traffic.	Yes /No
58	The Radio should support AES-128.	Yes /No



59	The radio must have a provision to Initiate a software reset command to either side of the radio from the management software, and should not have a HW based reset button for security reasons.		Yes /No
16 Port Gigabit LAN Switch			
	Parameter	Specification	Yes /No
1	MAC Address Table Size	8K	Yes/No
2	Switch Fabric	32 Gbps Forwarding Capacity	Yes/No
3	Transmission Method	Store and Forward	Yes/No
4	Diagnostic LEDs	Per Unit Power, Per Port: Activity/Link, Speed	Yes/No
5	Packet Buffer Memory	340Kbytes Buffer Memory per device	Yes/No
6	QoS	802.1p (4 Queues)	Yes/No
7	Internet Options RJ45	10BASE-T,100BASE-TX, and 1000BASE-T	Yes/No
8	Network Protocols IEEE	802.3Ethernet,802.3u Fast Ethernet,802.3xFlow control, 802.3ab Gigabit Ethernet,802.1p QoS	Yes/No
9	Emissions	FCC Class A, CE Class A	Yes/No
10	Power supply	100-240VAC, 50Hz Internal Universal Power	Yes/No
11	Environmental	RoHS Compliant	Yes/No
12	Safety	CSA + NRTL/C	Yes/No
13	Temperature	Operating :32° to 104° F (0° to 40°C)	Yes/No
14	Humidity	Operating 5% - 95% RH (Non-condensing)	Yes/No
8 Port Gigabit LAN Switch			
1	MAC Address Table Size	8K	Yes/No
2	Switch Fabric	32 Gbps Forwarding Capacity	Yes/No
3	Transmission Method	Store and Forward	Yes/No
4	Diagnostic LEDs	Per Unit Power, Per Port: Activity/Link, Speed	Yes/No
5	Packet Buffer Memory	340Kbytes Buffer Memory per device	Yes/No



6	QoS	802.1p (4 Queues)	Yes/No
7	Internet Options RJ45	10BASE-T,100BASE-TX, and 1000BASE-T	Yes/No
8	Network Protocols IEEE	802.3Ethernet,802.3u Fast Ethernet,802.3xFlow control, 802.3ab Gigabit Ethernet,802.1p QoS	Yes/No
9	Emissions	FCC Class A, CE Class A	Yes/No
10	Power supply	100-240VAC, 50Hz Internal Universal Power	Yes/No
11	Environmental	RoHS Compliant	Yes/No
12	Safety	CSA + NRTL/C	Yes/No
13	Temperature	Operating :32° to 104° F (0° to 40°C)	Yes/No
14	Humidity	Operating 5% - 95% RH (Non-condensing)	Yes/No
Single Port Serial to Ethernet Convertor			
1	10/100BaseT(X) Ports (RJ45 connector)	1	Yes /No
2	Magnetic Isolation Protection	1.5 kV (built-in)	Yes /No
3	Configuration Options	Web Console (HTTP), Serial Console (N Port 5110/5110-T/5150 only), Telnet Console, Windows Utility	Yes /No
4	Management	DHCP Client, IPv4, SNTP, SMTP, SNMPv1, Telnet, DNS, HTTP, ARP, BOOTP, UDP, TCP/IP, ICMP	Yes /No
5	Windows Real COM Drivers	Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded	Yes /No
6	Fixed TTY Drivers	SCO UNIX, SCO Open Server, UnixWare 7, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5. x, HP-UX 11i, Mac OS X	Yes /No
7	Linux Real TTY Drivers	Kernel version: 2.4.x, 2.6.x, 3.x, 4.x	Yes /No
8	Android API	Android 3.1.x and later	Yes /No
9	MIB	RFC1213, RFC1317	Yes /No
Serial Interface			
10	Connector	DB9 male	Yes /No
11	No. of Ports	1	Yes /No
12	Serial Standards	RS-232	Yes /No
13	Operation Modes	Disabled, Ethernet Modem, Pair Connection, Real COM, Reverse Telnet, TCP Client, TCP Server, UDP	Yes /No
14	Baud rate	110 bps to 230.4 kbps	Yes /No



15	Data Bits	5, 6, 7, 8	Yes /No
16	Stop Bits	1, 1.5, 2	Yes /No
17	Parity	None, Even, Odd, Space, Mark	Yes /No
18	Flow Control	RTS/CTS (RS-232 only), DTR/DSR (RS-232 only), XON/XOFF	Yes /No
19	RS-232	TxD, Rx D, RTS, CTS, DTR, DSR, DCD, GND	Yes /No
20	Input Current	128 mA @ 12 VDC	Yes /No
21	Input Voltage	12 to 48 VDC	Yes /No
22	No. of Power Inputs	1	Yes /No
23	Source of Input Power	Power input jack	Yes /No
24	Operating Temperature	Standard Models: 0 to 55°C (32 to 131°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)	Yes /No
25	Storage Temperature	-40 to 75°C (-40 to 167°F)	Yes /No
26	Ambient Relative Humidity	5 to 95% (non-condensing)	Yes /No
27	EMC	EN 55032/24	Yes /No
28	EMI	CISPR 32, FCC Part 15B Class A	Yes /No
29	EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs	Yes /No
30	Safety	UL 60950-1	Yes /No
Cat 6 UTP Cable			
1	Cat 6	Should meet minimum Category 6 requirements	Yes /No
2	Type of Conductors and Grade	4 Pair 23 AWG Solid Copper Conductors with FR Grade	Yes /No
3	Frequency	Characterized to 600Mhz	Yes /No
4	Standards in Compliance with Third Party Certification	ETL Certified ANSI/TIA-568-C.2, ISO/IEC 11801 and EN50173-1 Category 6	Yes /No
5	Performance Testing Compliance	Zero Bit Error Performance Testing by ETL	Yes /No
6	Jacket	Fire Retardant PVC	Yes /No
7	Separator	Cross / Star Spine to separate 4Pairs UTP Cable	Yes /No
8	Pull Thread / Strip Thread	Should have Cable Pull Tension Thread inside the UTP Cable	Yes /No
9	Certification	UL Listed and ROHS Compliant	Yes /No



Tender for "Supply of RF link and Accessories for DVOR site at Madurai Airport."

10	Outer Diameter (+/- 0.15mm)	6.2 mm	Yes /No
11	Meter Marking	Printed with every Feet Lengths of the UTP Cable	Yes /No

We have read and understood the requirements as stated above. We will comply with above specifications and requirements.

Signature of Bidder

Name: _____

Telephone: _____ Fax: _____

Stamp:



ANNEXURE-VI

ANNEXURE "MSME-A"

(To be submitted in Non-Judicial Stamp Paper value of Rs.100/- and to be uploaded in Technical folder)

Declaration (For MSE Units Only)

I, _____ on behalf of M/S. _____ in the capacity of
_____ (Position) hereby declare that

1. Our MSE Unit(s) is/are availing benefits extended by MSME, Government of India to Micro and Small Enterprises (MSEs) for the work of **"Supply of RF Link & Accessories for DVOR site at Madurai Airport"** invited vide Bid Number _____
2. Our MSE Unit(s) has/have not been awarded any work/ Supply under MSME benefit during the current financial year.

OR

Our MSE Unit(s) has/have been awarded work / supply for a total value of

Rs. _____ (Rupees _____ only) under MSME benefits as on date and same work(s) /Supply is/are "In hand (Progress)/Incomplete" during the current financial year. Further We confirm that the value of work/supply is /are in hand (awarded under MSME benefits) during the financial year plus estimated cost of this tender has not crossed the "Monetary Limit" mentioned in NSIC Certificate.

3. Our firm is participating in this tender under "MSE Unit" or "Open Bidder".

Note: Strike out the conditions in (2) & (3) whichever is not applicable. Decision on any discrepancy in this "Declaration" shall be at the discretion of AAI and shall be final and binding.

Signature with Company Seal

Attested by Notary public

Schedule – A

Sample Price Bid

Validate Print Help

Item Rate BoQ

Tender Inviting Authority: DGM(CNS), AAI, Madurai

Name of Work: Supply of RF Link and Accessories for DVOR site at Madurai Airport

Contract No: AAI/MDU/CNS-17/DVOR /2022-23/

Name of the Bidder/ Bidding Firm / Company :									
PRICE SCHEDULE									
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)									
NUMBER #	TEXT #	NUMBER	TEXT #	NUMBER #	TEXT	NUMBER #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description Supply of RF LINKS AND OTHER COMPONENTS	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	HSN / SAC code of GST for Supply/ Installation of the Item	GST Percentage	TOTAL AMOUNT excluding GST in Rs. P	TOTAL AMOUNT Including GST in Rs. P	TOTAL AMOUNT including GST In Words
1	Point to point RF Link 4.6-6.4 GHz, 8dbi Modular Ratio, for PTMP or PTP with n5-X Antennas (4.9-6.4 GHz Modular Twist on Antenna, 400mm dish for RF Link, 25dBi gain	2	Nos				0.00	0.00	INR Zero Only
2	16 Port Gigabit Ethernet LAN Switch Ethernet Switch	2	Nos				0.00	0.00	INR Zero Only
3	8 Port Ethernet LAN Switch	2	Nos				0.00	0.00	INR Zero Only
4	CAT6 SFTP Cable(LSZH SHEATH)	500	Mts				0.00	0.00	INR Zero Only
5	Moxa Serial to Ethernet Convertor 1 Port device server, 10/100 M Ethernet, RS-232, DB9 male, 12 -48 VDC with adapter	4	Nos				0.00	0.00	INR Zero Only
Total in Figures							0.00	0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only							