



**भारतीय विमानपत्तन प्राधिकरण**  
**AIRPORTS AUTHORITY OF INDIA**  
**विमानपत्तन निदेशक का कार्यालय**  
**OFFICE OF THE AIRPORT DIRECTOR**



ISO 9001-2008  
 ISO 14001-2004  
 OHSAS 18001-2007

सं.: भाविप्रा / मं /  
 No. : AAI / ML /

दिनांक /Dt. ....

एएआई/एएनएस/सीएनएस/वीओएमएल/2020/ ओएफसी रिंग /पीओ-07 / 112  
 AAI/ANS/CNS/VOML/2020/OFC RING /PO-07

दिनांक: 02/02/2021  
 Date: 02/02/2021

*By. Speed Post with Acknowledgement.*

To,  
 M/s DATA LINKS.  
 No. 51/4, Nettal Garden 2nd Street,  
 Perambur,  
 Chennai:-600011  
 E-mail: [datalinkschn@gmail.com](mailto:datalinkschn@gmail.com)

विषय: मंगलूरु अंतर्राष्ट्रीय हवाई अड्डे पर नाव- एड्स की आरसीएमएस फाइबर नेटवर्क को रिंग टोपोलॉजी में परिवर्तन करने की एसआईटीसी के लिए कार्य आदेश

Sub: Work Order for SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Mangaluru International Airport.

Ref:

- 1) Our E-Tender No.: AAI/ANS/CNS/VOML/2020/OFC RING/T-03 dated. 22/10/2020 SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Mangaluru International Airport. (E-Tender ID.: 2020\_AAI\_60492\_01)
- 2) Your offer vide E-Bid No. 214437 dated 09/11/2020 submitted through CPP portal.

Sir,

Reference may please be made to our E-Tender No. AAI/ANS/CNS/VOML/2020/OFC RING/T-03 dated. 22/10/2020 for SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Mangaluru International Airport (E-Tender ID.: 2020\_AAI\_60492\_01) and your offer vide E-Bid No. 214437 dated 09/11/2020, The Coordination In-Charge, Airports Authority of India, Mangaluru International Airport is pleased to place the Work Order to your firm for SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Mangaluru International Airport as specified in Bill of Materials (Annexure-I) for a total cost of ₹.1188419/-(Rupees Eleven Lakhs Eighty Eight Thousand Four Hundred and Nineteen only) plus applicable GST as detailed in Price Schedule (Annexure-II).

**Terms and Conditions**

**1. Time Schedule**

- 1.1. Time : The Essence of Contract
- 1.2. Time Schedule.

The work towards SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Mangaluru International Airport strictly as per Specification in Annexure-I should be completed within **60 days** from the date of issue of Work Order.



- 1.3. The supply of goods ordered should be fully completed in not more than three part shipments within the stipulated delivery schedule. The sets supplied in each shipment should be complete in all respects.
- 1.4. Contractor shall return one copy of this work order within seven working days as a confirmation towards acceptance of terms and conditions of work order duly signed by him on each page of the order.
- 1.5. Contractor 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 purchase order has been issued Annexure-IV. Contract agreement shall be signed by authorized signatory of the firm.
- 1.6. The works shall be carried out under the supervision of the CNS In-charge of Mangaluru International Airport or the nominated project officer as the case may be, according to the terms and conditions of the contract

## 2. Guarantee/Warranty

- 2.1 The equipment supplied under this work order shall bear warranty as specified in Bill of Materials from the date of commissioning of the facility.
- 2.2 All goods or material shall be supplied strictly in accordance with the specifications. No deviation from such specifications of these conditions shall be made without AAI's agreement in writing must be obtained before any work against the order is commenced. All materials furnished by the contractor pursuant to the Order (irrespective of whether engineering/design or other information has been furnished, reviewed or approved by AAI) are required to be guaranteed to be of the best quality of their respective kinds (unless otherwise specifically authorized in writing by AAI) and shall be free from faulty design to the extent such design is not furnished by AAI. The goods/material used by the contractor and its workmanship should be of proper quality so as to full fill in all respects, the operating conditions and other requirements specified in the order.
- 2.3 If any trouble or defect originating from the design, materials, workmanship or operating characteristic of any materials arise during warranty period and the contractor is notified thereof, the contractor at his own expense (including freight, duty and customs for items sent for repair) and at no cost to AAI, as promptly as possible make such alterations, repairs and replacements at the site as may be necessary to permit facilitate the functioning of the equipment in accordance with the specifications. The warranty period of repaired or replaced goods shall be extended for a period equal to the turnaround time (out of service period).
- 2.4 In the event that the materials supplied do not meet the specifications and/or are not in accordance with the drawings, data sheets and rectification as required at site, AAI shall inform the contractor giving full details of deficiencies. The contractor shall, at his own expense, meet and agree with the representatives of AAI the action required to correct the deficiencies and shall attend to the deficiencies at his own expense. Replacement under warranty clause shall be made by the contractor free of all charges at site including freight, insurance and other incidental charges.
- 2.5 Contractor shall repair the unserviceable items failed during the warranty period within turnaround time of **15 days**. Turnaround period is defined as the time period between the unserviceable item received by the supplier in factory and time when serviceable item is dispatched from the factory. Any delay in repairing the unserviceable card shall attract LD which shall be deducted from the performance Bank Guarantee.
- 2.6 LD due to delay in repairing item during warranty shall be calculated as follows:
  - a) (Average delay in repairing one module) is equal to number of days of delay, beyond turnaround time, in repairing unserviceable items which became U/S during warranty period divided by total number of items given for repairs during warranty period
  - b) (Value of performance Bank guarantee/300\*)



c) (Value to be recovered) = A X B

Maximum value of recovery shall not be more than 50% of value of performance Bank Guarantee.

\*This factor is based on deducting 1% of value of performance bank guarantee towards average delay of 30 days

d) Remaining 50% value of Performance Bank guarantee can be recovered towards non-performance of equipment as per tender condition/scope of the contract. Case for such recovery shall be initiated at least two months in advance before the expiry of Performance Bank Guarantee by the Officer-In-Charge of station where equipment/System is installed. Final decision on the matter will be of Coordination In-Charge

2.7 AAI reserves the right to forfeit security deposit/ en-cash complete value of performance Bank guarantee if the performance of equipment/system is not satisfactorily without assigning any reason.

### 3. Operational Maintenance during Warranty Period.

3.1 The contractor shall replace any parts found defective during warranty period without any charges whatsoever to AAI.

3.2 During warranty period, the contractor shall provide free replacement of any defective spares or even equipment/items supplied against this work.

### 4. Site Acceptance Test (SAT) & Commissioning

4.1 It will be the responsibility of the contractor to submit the system test procedure for conducting the post-installation site acceptance testing. The procedure submitted by the bidder firm shall be drafted in line with the standard practices followed in the industry and shall be in accordance with the test procedures & practices specified by the OEM. The acceptance test procedure on approval by AAI shall become the document for acceptance of the equipment after installation at the site. The draft copy of system test procedure should be made available to AAI for approval before 30 days of the schedule site acceptance date.

4.2 The system will be commissioned after successful completion of approved SAT, operational & manuals and all the works under the scope of the tender.

4.3 Installation & Commissioning will be termed as completed after successful completion of SAT.

### 5. Payment terms.

5.1 The total cost is for the supply of the items on door delivery basis and inclusive of all statutory Taxes, Duties & Levies, Transportation Charges and Transit Insurance, Packing & Forwarding, Octroi, Entry Taxes, Loading & Unloading and other miscellaneous Overheads etc. No extra charges will be paid. No mobilization advance shall be made. No Form C or D will be issued. GST extra as applicable. Supplier should extend all the GST ITC credit benefit to AAI.

5.2 The Contractor is required to produce Government of India notifications towards taxes at the time of opening Technical Bid versus time of supply of Items while seeking claim if any, towards increase in statutory taxes in India/ states of India.

5.3 Payment to the supplier shall be made in the following manner:-

i) **60% of purchase order price** for supply of equipment and accessories supplied, 100% of freight and insurance, taxes and duties against receipt of goods at site in good condition on submission of the following documents in ORIGINAL

a) Invoice + 2 copies

b) Itemized Packing list with cost of each item + 2 copies

c) Performance Bank Guarantee

d) Proof of dispatch of equipment / items

e) Certificate of goods received at site in physically good condition.

ii) **40% of purchase order price** for supply of equipment & accessories, 100% Installation (including cabling etc.) and commissioning, upon successful completion of the above mentioned activities, against submission of the following documents in ORIGINAL:

a) Certificate of completion of Installation & commissioning issued by authorized representative of AAI.



- iii) Any deductions towards statutory taxes (TDS), levy for delays, damages etc. if any will be applicable during release of payment.
- iv) No mobilization advance shall be paid. All bank charges (for DD/RTGS/NEFT etc.) shall be in the account of the supplier/contractor.
- v) Contractor shall submit the proof of filing GST return for the GST amount paid by AAI for effecting any subsequent payments

#### 6. Liquidated Damages

6.1 In case of delay in completion of the contract, liquidated damages (L.D.) shall be levied @ 1% of the full value of uncompleted portion of work per week (part of week to be treated as one week) subject to a maximum of 10% of total contract value. If the uncompleted work, restricts the operation of complete system then LD shall be applicable to total value of contract with approval of Competent Authority.

6.2 Normally, Contract have following activities:

- a. Supply of items
- b. Installation, testing & commissioning

Delay in any stage of work shall invite L.D. according to value of the activity as defined above at 6.1

6.3 AAI, if satisfied, that the works can be completed by the contractor within a reasonable time after the specified time for completion, may allow further extension of time at its discretion with or without the levy of L.D. Application for Extension of time may be made as per the format in Tender Document. In the event of extension granted with levy of L.D., AAI will be entitled without prejudice to any other right or remedy available in that behalf, to recover from the contractor an agreed compensation amount calculated @ 1% of the total value of the uncompleted portion of work per week or part thereof subject to a maximum of 10% of total contract value.

#### 7. Delay & Non-Conformance

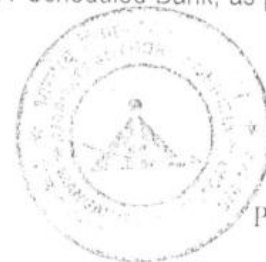
In case of time schedule including approved delay with or without levy of liquidated damages for late delivery of equipment or late completion of SITC whichever if applicable as contained in Para 1 & 6 above not being adhered to, AAI has shall have the right to cancel the order wholly or in part thereof without any liability of cancellation charges and procure the goods elsewhere in which case the successful contractor shall make good the difference in the cost of goods procured elsewhere and price set forth in the order with the contractor. In the event of rejection of non-conforming goods, the contractor shall be allowed to correct the non-conformities without extension in delivery period. If contractor fails to do so within the stipulated time, the purchaser shall have the right to take recourse to 7.

#### 8. Substitution & Wrong Supplies

- 8.1 Unauthorized substitution or materials delivered not complying with the description or quality or supplied in excess quantity or rejected goods shall be taken back by the contractor at his own cost and risk.
- 8.2 Contractor shall not substitute any item at the time of delivery against the item mentioned in purchase order unless the item is no longer available in the market due to obsolesce or any other reason and OEM issues the certificate to this effect. AAI shall accept the higher version of item of same make and better Technical specifications and subjected to approval of competent authority. Change in price shall be acceptable only when it is in favor of AAI.

#### 9. Security Deposit.

- 9.1 The contractor, shall furnish performance guarantee by way of Security Deposit for the fulfillment of his contract, an amount equal to 10% of the work order value towards the contract. In this case the contractor, shall authorize AAI to deduct a sum at the rate of 10% of gross amount from the initial bill payment towards Security Deposit.
- b. Security deposit will also be accepted in form of Performance Bank Guarantee of Nationalized Bank or any Scheduled Bank but not co-operative or Gramin Bank in accordance with the prescribed form, provided confirmatory advice is enclosed.
- 9.1 The contractor shall **within 30 calendar days** of the issue of letter of acceptance of the bid, shall submit unqualified performance guarantee of 10% (Ten Per Cent) of the Work Order value to AAI in the form of an irrevocable and unconditional bank guarantee, on a Nationalized / Scheduled Bank, as per Proforma attached as **Annexure -V**



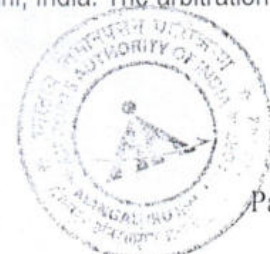
- 9.2 In case, the Contractor fails to submit the PBG within stipulated period, interest @ 12% p.a. on Performance Guarantee amount would be levied (non-refundable) for delayed period of submission. In case Contractor fails to submit performance bank guarantee **within 60 days**, AAI reserves the right to cancel the order.
- 9.3 The Performance Guarantee shall be **valid 6 months beyond the Warranty (i.e 3 years 6 months from Date of commissioning/SAT)** and shall remain valid as per provisional extension granted by AAI. If the agency fails to extend the validity of the Performance Guarantee, the same shall be en-cashed by AAI with or without notice.
- 9.4 The guarantee amount shall be payable to AAI without any condition whatsoever and the guarantee shall be irrevocable.
- 9.5 The performance guarantee shall be deemed to govern the following guarantees from the Contractor, in addition to the other provisions of the guarantee.
- 9.6 The successful and satisfactory operation of the items supplied in accordance with the specifications and other relevant documents.
- 9.7 The items supplied shall be free from all defects of design, material and workmanship and upon written notice from AAI, the Contractor shall fully remedy, free of expenses to AAI, all such defects as developed under the normal use of the said items within the period of guarantee/warranty
- 9.8 The performance guarantee is intended to secure the performance of the entire items. However, it is not to be construed as limiting the damages stipulated in any other clause.
- 9.9 The Security Deposit/Performance Bank Guarantee will be returned to the Contractor at the end of the period of liability without interest.

#### 10. Force Majeure

- 10.1 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 therein being followed. Force majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.), acts of states, the direct and indirect consequences of wars (declared or un declared), hostilities, national emergencies, civil commotions and strikes (only those which exceed a duration of ten continuous days) at Contractors factory. The Contractor's right to an extension of the time limit for completion of the work in above mentioned cases is subject to the following procedures:
- 10.2 That within 10 days after the occurrence of a case of force majeure but before the expiry of the stipulated date of completion, the contractor informs the AAI in writing that the Contractor considers himself entitled to an extension of the time limit as per the format in tender document.
- 10.3 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.
- 10.4 That the Contractor proves that the said conditions have actually been interfered with the carrying out of the Contract.
- 10.5 That the Contractor proves that the delay occurred is not due to his own action or lack of action.
- 10.6 Apart from the extension of the time limit, force majeure does not entitle the Contractor for any relaxation or to any compensation of damage or loss suffered.

#### 11. Arbitration and Laws

- 11.1 Except where otherwise provided for in the contract, all questions and disputes relating to the meeting of the specifications, designs, drawings, and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be settled within thirty (30) days (or such longer period as may be mutually agreed upon) from the date that either party notifies in writing that such dispute or disagreement exists. Provided that any dispute that remain unresolved shall be settled under the Rules of Indian Arbitration and Conciliation Act, 1996, the venue of Arbitration shall be New Delhi, India. The arbitration award shall



be final and binding upon the parties and judgment may be entered thereon, upon the application of either party, by any court having jurisdiction

11.2 Indian laws shall govern this contract.

## 12. Patents, Contractor's Liability & Compliance of Regulations

12.1 Contractor shall protect and fully indemnify AAI from any claims for infringement of patents, copy right, trade mark or the like.

12.2 Contractor shall also protect and fully indemnify AAI from any claims from contractor's workmen/employees, their heirs, dependents, representatives etc. or from any other person(s) or bodies/companies etc. for any act of commission or omission while executing the order.

12.3 Contractor 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.

## 13. Dispatch of Documents :

The successful bidder shall forward two sets of the following documents, to the CNS In-Charge as soon as goods are dispatched.

- Bills (GST Invoices) in triplicate as per GST guidelines.
- Delivery Challan
- Receipt from the Consignee for completion of delivery in good condition
- Post-receipt inspection certificate
- Installation & Commissioning Certificates
- Performance Bank Guarantee/Undertaking for deduction of Security Deposit

Bills shall be raised in favour of

Coordination In-Charge,  
Airports Authority of India,  
ATS Building, Near old Airport,  
Bajpe, Mangaluru-574142

14. AAI reserves the right to place repeat order, not exceeding 50% the quantity of the original order

## 15. Insurance, Freight

15.1 Contractor will make the arrangements for obtaining road permits/entry Tax etc. however Consignee shall provide the required documents i.e. copy of purchase order, authorization letter etc. Nothing extra shall be paid by AAI

15.2 All items shall be fully insured by the contractor. The cost of Insurance and Freight shall be paid by the contractor

15.3 The Contractor shall be responsible for making insurance claims in case of damage or loss of insured items.

16. All terms and condition of Tender document remains valid and is a part of this work Order.

 21/4/2021

(जी. रमेश कुमार) / (G. RAMESH KUMAR)

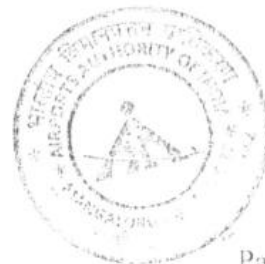
संयुक्त महाप्रबंधक (सीएनएस) / JOINT GENERAL MANAGER (CNS),

सीएनएस इन-चार्ज / CNS IN-CHARGE

समन्वय प्रभारी के लिए / FOR COORDINATION IN-CHARGE

भारतीय विमानपत्तन प्राधिकरण / AIRPORTS AUTHORITY OF INDIA

मंगलूर अंतर्राष्ट्रीय हवाई अड्डा / MANGALURU INTERNATIONAL AIRPORT



## Annexure-f

Bill of Materials

Name of Work: SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Mangaluru International Airport.

| SL.NO | DESCRIPTION OF ITEM                                                                                                        | QTY      |
|-------|----------------------------------------------------------------------------------------------------------------------------|----------|
| 01 ✓  | 24 Port L2 Managed Gigabit Switch with 4 SFP combo ports.<br>Make/Model: RUCKUS ICX 7150-24-4XIG                           | 05 Nos   |
| 02 ✓  | 1G SFP Bi-Directional Module pair LC Connector, SM<br>Make/Model: E1MG-BXD/BXU                                             | 05 Set   |
| 03 ✓  | 12 Core outdoor Armored OFC Cable SM required in addition to Station surplus stock of 2000M Make/Model: Finolex MLM-2F-12F | 2650 M#  |
| 04 ✓  | 24 Port LIU With splice tray and SC adaptor Panel<br>Make/Model: MOLEX                                                     | 02 Nos   |
| 05 ✓  | SC Pigtail SM 9/125 micron Make/Model: MOLEX                                                                               | 48 Nos.  |
| 06 ✓  | SC-LC OFC Patch Cord, Duplex 3M, SM Make/Model: MOLEX                                                                      | 10 Nos.  |
| 07 ✓  | HDPE Pipe 32mm Make/Model: Hi-Tech                                                                                         | 4500M#   |
| 08 ✓  | GI Pipe 2 inches (ISI)                                                                                                     | 50M#     |
| 09 ✓  | PVC Pipe 1 inches (ISI)                                                                                                    | 75M#     |
| 10 ✓  | OFC Joint Enclosure 12 Core (RPG)                                                                                          | 2 No#    |
| 11 ✓  | OFC Route marker                                                                                                           | 50Nos    |
| 12 ✓  | Saddle 1.5"                                                                                                                | 6000Nos# |
| 13 ✓  | Manhole with RCC Cover:                                                                                                    | 5 Nos.#  |
| 14    | OFC cable Laying - Hard Soils/ under road/ concrete surface                                                                | 600 M#   |
| 15    | Laying OFC cable through open trench and wall                                                                              | 3650 M#  |
| 16    | Installation, Configuration, Testing and Commissioning work                                                                | 1 Job.   |

Warranty: 3 years from the date of Commissioning.

# PAYMENT ON ACTUAL USED QUANTITY AS PER SITE REQUIREMENT

Installation work shall be done as per site requirement.



(जी. रमेश कुमार)/ (G. RAMESH KUMAR)

संयुक्त महाप्रबंधक (सीएनएस)/ JOINT GENERAL MANAGER (CNS),

सीएनएस इन-चार्ज/ CNS IN-CHARGE

समन्वय प्रभारी के लिए/ FOR COORDINATION IN-CHARGE

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**SPECIFICATIONS IN DETAIL FOR WORK TOWARDS SITC OF CONVERSION OF NAV-AIDS RCMS  
FIBER NETWORK TO RING TOPOLOGY**

| SL.NO     | DESCRIPTION OF ITEM                                                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>01</b> | <b>24 Port L2 Managed Gigabit Switch with 4 SFP combo ports.</b>                                                                                                                        |
| <b>a</b>  | <b>Product details- Make/Model:RUCKUS ICX 7150-24-4XIG</b>                                                                                                                              |
| <b>b</b>  | <b>Architecture &amp; Port Density</b>                                                                                                                                                  |
| i         | Switch should offer Wire-Speed Non-Blocking Switching & Routing Performance at Layer 2 & Layer 3                                                                                        |
| ii        | The Access Switch should have Twenty Four (24) 1GbE RJ45 ports and should have Four 1GbE/10GbE SFP+ Slots (1G should be ready to use from day 1, license upgradeable to 10G in future ) |
| iii       | Access Switch should support Stacking up to 8 Switches with more than 40 Gbps stacking bandwidth per Switch.                                                                            |
| <b>c</b>  | <b>Performance</b>                                                                                                                                                                      |
| i         | Switching Bandwidth: Should provide Non-Blocking switch fabric capacity of 128 Gbps or more.                                                                                            |
| ii        | Forwarding Capacity: Should provide wire-speed packet forwarding of 95 Mbps or more.                                                                                                    |
| <b>d</b>  | <b>Layer 2 features</b>                                                                                                                                                                 |
| i         | Should support 1K VLANs with 4K VLAN IDs                                                                                                                                                |
| ii        | Should support 10K MAC addresses or more.                                                                                                                                               |
| iii       | Shall support IP multicast snooping with support for IGMP v1, v2, v3 and MLD v1 & v2                                                                                                    |
| iv        | Should support MRP ring protocol                                                                                                                                                        |
| <b>e</b>  | <b>Layer 3 features</b>                                                                                                                                                                 |
| i         | Should support minimum 1K IPv4 routes or more                                                                                                                                           |
| ii        | Should support Basic IPv4 and IPv6 Static Routing, ECMP, Host Routes, Virtual Interfaces, Routed Interfaces, Route Only and Routing between directly connected subnets from day 1.      |
| iii       | Should have an optional upgrade path, preferably software licensed based, to support the following Dynamic IPv4 & IPv6 Routing protocols and Multicast Routing Protocols.               |
| iii       | Dynamic IPv4 and IPv6 Routing protocols like RIP v1&v2, RIPng, OSPFv2, OSPFv3, VRRPv2 & VRRPv3.                                                                                         |
| iii.      | PIM-SSM, PIM Sparse, PIM Dense, PIM Anycast RP, and PIM passive IPv4 multicast routing                                                                                                  |
| <b>f</b>  | <b>Security</b>                                                                                                                                                                         |
| i         | Switch should support RADIUS, TACACS/TACACS+ and username/password for Authentication, Authorization and Accounting (AAA) with Local User Accounts and Local User Passwords.            |
| ii        | Should support secure communications to the management interface and system through SSL, Secure Shell (SSHv2), Secure Copy and SNMPv3                                                   |
| iii       | Should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and                                                                                                                       |



|     |                                                                                                                                                           |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | Dynamic ARP Inspection.                                                                                                                                   |
| iv  | Should support IPv4 and IPv6 ACLs with up to 500 rules per ACL and a minimum of 6K rules per system (Standalone Switch or Stack).                         |
| v   | Should support Byte and packet based broadcast, multicast, and unknown-unicast limits with suppression port dampening.                                    |
| vi  | Should support IPv6 Router Advertisement (RA) Guard.                                                                                                      |
| vii | Should support Flexible Authentication with 802.1x Authentication and MAC Authentication.                                                                 |
| g   | <b>Manageability</b>                                                                                                                                      |
| i   | Should support manageability using Network Management Software with Web based Graphical User Interface (GUI).                                             |
| ii  | Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring                                         |
| iii | Should support NetFlow or sFlow or equivalent                                                                                                             |
| h   | <b>Physical Attributes</b>                                                                                                                                |
|     | Mounting Option : 19" Universal rack mount ears                                                                                                           |
| i   | <b>Mandatory Compliance :</b>                                                                                                                             |
|     | All categories of Switches, Transceivers & Switch OS should be from same OEM                                                                              |
| j   | <b>Warranty</b>                                                                                                                                           |
|     | Switch should be quoted with TAC Support and onsite Warranty for <b>3 years</b> or OEM warranty with NBD Hardware Replacement.                            |
| k   | <b>Product brochure</b><br>Vendor should provide printed technical catalogs/brochures for the quoted model containing technical specifications, features. |
| l   | <b>Temperature</b><br>Operating Temperatures: 0°C to 45°C<br>Temperatures : -40°C to 70°C                                                                 |
| m   | <b>Humidity</b><br>Operating relative humidity: 5% to 95% at 45°C, non-condensing, Non-operating relative humidity: 0% to 95% at 70°C, non-condensing     |
| n   | <b>Make:</b><br>RUCKUS, CISCO, NETGEAR, HP                                                                                                                |
| 2   | <b>SFP Module : 1G SFP Bi-Directional Module pair LC Connector, SM</b>                                                                                    |
| a   | 1G Base LR (SM) Transceiver, Distance Support: Min 10Km                                                                                                   |
| b   | Form Factor: SFP, Duplex LC Connector, Hot Pluggable                                                                                                      |
| c   | MSA Compliant, RoHS, CE, FCC, UL, VCCI                                                                                                                    |
| d   | Power dissipation <1W                                                                                                                                     |
| e   | Industrial temperature range<br>-40°C to 85°C                                                                                                             |
| f   | Single 3.3V power supply                                                                                                                                  |
| g   | Uncooled DFB                                                                                                                                              |
| h   | Receiver limiting electrical                                                                                                                              |



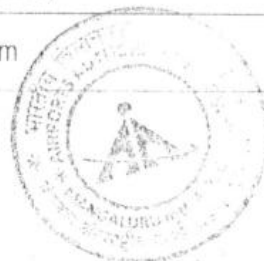
|   |                                                                                                                                                               |                                            |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
|   | Interface                                                                                                                                                     |                                            |
| i | Single LC connector                                                                                                                                           |                                            |
| j | Built-in digital diagnostic functions                                                                                                                         |                                            |
| 3 | <b>FIBER OPTIC CABLE OUTDOOR 12F UNITUBE ECCS ARMoured HDPE</b>                                                                                               |                                            |
|   | 12-core, Single Mode, Corrugated steel tape Armored, Loose-tube, Water Swellable Tape, with 2 FRP Rods, Outdoor fiber cable fully conforming to ITU-T G.652.D |                                            |
|   | <b>Parameter</b>                                                                                                                                              | <b>Dimension</b>                           |
| a | <b>Construction details:</b>                                                                                                                                  |                                            |
|   | Number of Cores                                                                                                                                               | 12                                         |
|   | Number of loose tubes                                                                                                                                         | 1                                          |
|   | Loose tube Inner Diameter                                                                                                                                     | $1.7 \pm 0.1$ mm                           |
|   | Loose tube Outer Diameter                                                                                                                                     | $2.5 \pm 0.1$ mm                           |
|   | Peripheral Strength member (2 FRP Rods)                                                                                                                       | $1.0 \pm 0.05$ mm                          |
|   | Moisture Barrier                                                                                                                                              | Water Swellable Tape                       |
|   | Armour                                                                                                                                                        | 0.150 mm ECCS Tape                         |
|   | Outer Sheath                                                                                                                                                  | 1.8 mm (Nominal) HDPE - Black              |
|   | Overall Cable diameter                                                                                                                                        | $8.5 \pm 0.5$ mm                           |
| b | <b>Cable Mechanical Characteristics:</b>                                                                                                                      |                                            |
|   | Tensile Strength                                                                                                                                              | 1000 N                                     |
|   | Crush Resistance                                                                                                                                              | 2000 N                                     |
|   | Impact Strength                                                                                                                                               | 10Nm                                       |
|   | Minimum bend radius                                                                                                                                           | $20 \times D$ , D= Diameter of cable       |
| c | <b>Temperature Performance:</b>                                                                                                                               |                                            |
|   | Installation                                                                                                                                                  | - 20 °C to + 70 °C                         |
|   | Operation                                                                                                                                                     | - 20 °C to + 70 °C                         |
|   | Storage                                                                                                                                                       | - 20 °C to + 70 °C                         |
| d | <b>Optical Fiber Characteristics:</b>                                                                                                                         |                                            |
|   | Attenuation                                                                                                                                                   | at 1310 nm $\leq 0.36$ dB/km               |
|   |                                                                                                                                                               | at 1550 nm $\leq 0.23$ dB/km               |
|   | Chromatic Dispersion                                                                                                                                          | 1285 - 1330 nm $\leq 3.5$ ps/nm.km Minimum |
|   |                                                                                                                                                               | 1550 nm $\leq 18$ ps/nm.km                 |
|   | Zero Dispersion Wavelength                                                                                                                                    | 1300 - 1324 nm                             |
|   | Zero Dispersion Slope                                                                                                                                         | $\leq 0.092$ ps/nm <sup>2</sup> .km        |
|   | Polarization Mode Dispersion                                                                                                                                  | $\leq 0.20$ ps/ $\sqrt{\text{km}}$         |



|           |                                                                                                                                                                                      |                                                |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
|           | Cable Cut-off Wavelength                                                                                                                                                             | $\leq 1260 \text{ nm}$                         |
|           | Mode Field Diameter                                                                                                                                                                  | at 1310 nm $9.2 \pm 0.4 \mu\text{m}$           |
|           | Mode field Concentricity Error                                                                                                                                                       | $\leq 0.8 \mu\text{m}$                         |
|           | Cladding Diameter                                                                                                                                                                    | $125 \pm 1 \mu\text{m}$                        |
|           | Cladding Non-circularity                                                                                                                                                             | $\leq 1 \%$                                    |
|           | Coating Diameter                                                                                                                                                                     | $245 \pm 10 \mu\text{m}$                       |
| e         | Make                                                                                                                                                                                 | AMP, Finolex, Sterlite, BELDEN, Molex, Tyco    |
| <b>04</b> | <b>24 Core Fully Loaded Fiber Patch Panel (LIU)</b>                                                                                                                                  |                                                |
|           | Sliding Fiber Management System 1U, 24 Core Fully loaded assemblies with Adapter plates and Splice tray and Splice accessories kit. Must conform to ISO/IEC 11801 operating standard |                                                |
|           | Should be robust 1U sliding patch panel designed to accept up to 2 removable faceplates with Plunger Grommet latching                                                                |                                                |
|           | Should be able accept LC Duplex, SC Simplex                                                                                                                                          |                                                |
|           | Should allow easy access during installation or re-work with no disturbance of the existing cable or fibers.                                                                         |                                                |
|           | Splice tray colour should be blue, with transparent snap fit cover                                                                                                                   |                                                |
|           | Splice tray should have stacking option with removable hinge                                                                                                                         |                                                |
|           | Splice tray should have hinged splice rest position for easy fiber management                                                                                                        |                                                |
|           | Should have Upto 4 standard cable entry points for, loose tube, tight buffer, and steel tape armoured cable.                                                                         |                                                |
|           | Fiber management system, should come fully loaded with fiber pigtails of 1.5m length, Splice tray and hardware kit.                                                                  |                                                |
|           | Fits in standard 19", should have Removable faceplate with plunger and grommet latching                                                                                              |                                                |
|           | Should have Built-in front cable management with Panel numbers and rack number identification port labelling                                                                         |                                                |
|           | Should have High quality finish, with no sharp edges                                                                                                                                 |                                                |
|           | <b>ELEMENT</b>                                                                                                                                                                       | <b>CHARACTERISTIC</b>                          |
|           | Height                                                                                                                                                                               | 1U (44.4mm)                                    |
|           | Width                                                                                                                                                                                | 483mm                                          |
|           | Depth                                                                                                                                                                                | 290mm                                          |
|           | Material                                                                                                                                                                             | Cold-rolled steel                              |
|           | Material Thickness                                                                                                                                                                   | 1.2mm                                          |
|           | Material Coating                                                                                                                                                                     | Electrostatic powder coating                   |
|           | Colour                                                                                                                                                                               | Black RAL 9004                                 |
|           | Operating Temperature                                                                                                                                                                | $-40^{\circ}\text{C}$ to $+60^{\circ}\text{C}$ |
|           | Designed in Accordance With                                                                                                                                                          | TIA/EIA 568.C, ISO/IEC 11801, EN50173,         |



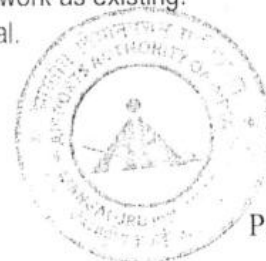
|           |                                                                                                                                                                                            |                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|           |                                                                                                                                                                                            | IEC60304, IEC61754 |
| <b>05</b> | <b>SC Pigtail SM 9/125 micron</b>                                                                                                                                                          |                    |
| <b>a</b>  | SC-Style Pigtails 9/125, SC LSZH, Semi Tight pre terminated compatible with SC snap in adapter plates.                                                                                     |                    |
| <b>b</b>  | Splice able pigtail assembly                                                                                                                                                               |                    |
| <b>c</b>  | 250µm coated fiber in protective 900µm tubing                                                                                                                                              |                    |
| <b>d</b>  | Compatible with fusion or mechanical splices.                                                                                                                                              |                    |
| <b>e</b>  | Cable length shall be minimum of 1.5 Meters                                                                                                                                                |                    |
| <b>f</b>  | Operating temperature -40° to +85°C                                                                                                                                                        |                    |
| <b>g</b>  | SM Connectors 220 Cycles, Blue                                                                                                                                                             |                    |
| <b>h</b>  | Ferrules shall be pre-radiused Ceramic .                                                                                                                                                   |                    |
| <b>i</b>  | Attenuation not more than 0.75Db PER MATED PAIR                                                                                                                                            |                    |
| <b>K</b>  | Shall be single mode OS2.                                                                                                                                                                  |                    |
| <b>06</b> | <b>SC-LC OFC Patch Cord, Duplex 3M, SM</b>                                                                                                                                                 |                    |
|           | The patch cords should be terminated with zirconia ferrule connectors, manufactured with precision factory mounting and polishing techniques which helps assure high transmission quality. |                    |
| <b>a</b>  | <b>FEATURES/BENEFITS</b>                                                                                                                                                                   |                    |
|           | Should conform to IEC, EIA-TIA or Telcordia performance requirements                                                                                                                       |                    |
|           | Should be available in different fiber & connector types<br>LC/PC, SC/PC, LC/APC , SC/APC                                                                                                  |                    |
|           | Must be available in standard and custom lengths                                                                                                                                           |                    |
|           | Should be REACH & SvHC compliant                                                                                                                                                           |                    |
|           | Materials should be in compliant to RoHS2                                                                                                                                                  |                    |
|           | <b>SPECIFICATIONS</b>                                                                                                                                                                      |                    |
| <b>b</b>  | <b>CHARACTERISTICS</b>                                                                                                                                                                     |                    |
|           | Cable Material                                                                                                                                                                             | LSZH               |
|           | Strength Member                                                                                                                                                                            | Aramid             |
|           | Crush                                                                                                                                                                                      | 1000 N             |
|           | Operating Temperature                                                                                                                                                                      | -20 °C to +60 °C   |
|           | Jacket Diameter                                                                                                                                                                            | 2.0mm (zipcord)    |
|           | Secondary Buffer Diameter<br>(2.0 mm)                                                                                                                                                      | 900 ± 50 µm        |



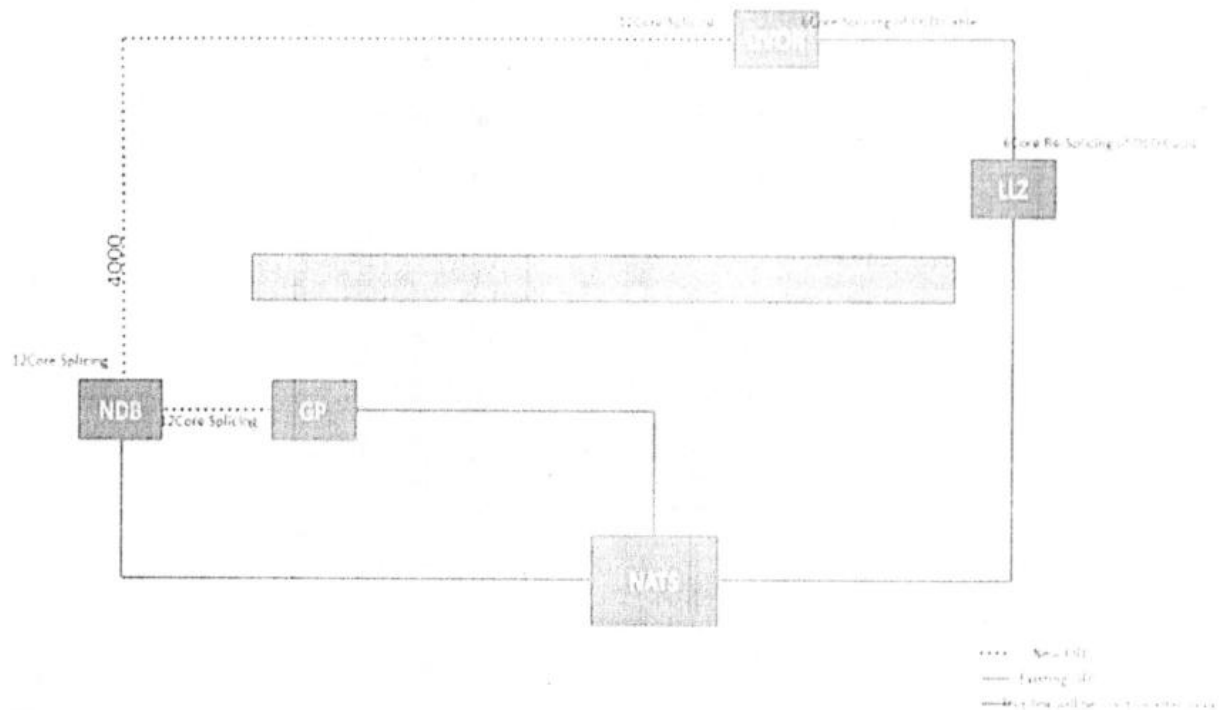
|           |                                                                                     |                                            |
|-----------|-------------------------------------------------------------------------------------|--------------------------------------------|
|           | Minimum Bending Radius                                                              | 10D (installed) 20D (loaded) $\mu\text{m}$ |
| c         | <b>MECHANICAL PROPERTIES</b><br>(in Conformance to IEC 61300-2-x)                   |                                            |
|           | Mechanical endurance                                                                | 500 mating                                 |
|           | Vibration                                                                           | 10-55 Hz, 0.75 amplitude                   |
|           | Cable retention                                                                     | Magnitude 50 N                             |
|           | Cable torsion                                                                       | 1.5kg-2.5 kg for 2mm-3mm cable diameter    |
| <b>07</b> | <b>HDPE Pipe 32<sup>1</sup>mm</b>                                                   |                                            |
| a         | 32 MM HDPE Pipe with related Accessories - Screws, Fillers, Connectors, Corners etc |                                            |
| b         | Thickness : 2-5 mm                                                                  |                                            |
| c         | The quoted product should be ISI certified                                          |                                            |
| d         | Pre-lubricated HDPE (High Density Polyethylene) pipes                               |                                            |
| e         | Pressure Rating/ PN Class : 6                                                       |                                            |
| f         | Material Grade : PE 63, PE 80, PE 100                                               |                                            |
| g         | Pressure : PN 2.5 TO 20                                                             |                                            |
| h         | Section Shape : Round                                                               |                                            |
| i         | Color : Black                                                                       |                                            |
| j         | Size/Diameter : 32 mm OD                                                            |                                            |
| k         | Packaging Type : In rolls                                                           |                                            |
| <b>08</b> | <b>GI Pipe 2 inch</b>                                                               |                                            |

### Guidelines for Installation Testing & Commissioning

1. Additional fiber to be laid from GP to NDB underground by ground excavation and NDB to DVOR along the perimeter wall through HDPE. Required fiber pulling / splicing works will need to be carried out. 2000M surplus fiber stock of the station be utilized and additional fiber required to be procured and installed. Testing and Numbering all OFC cores need to be done.
2. 5 Nos of manholes shall be constructed as per spec one each at GP, NDB, DVOR, Gate crossing between NDB and DVOR and one midway between GP and NDB. Not less than 5M fiber to be laid extra in each manhole
3. Fixing and termination of LIU, Splicing of Pig tails, construction of Pull up chamber for OFC joining.
4. Network switches to be installed in each site and configured for automatic route change and communication restoration within seconds in case of failure in a particular section.
5. All equipment at each site to be integrated and interfaced to the network as existing.
6. FXS/FXO pair for each site is to be configured and made operational.



- ## 9. OFC LAYOUT DIAGRAM



मंगलूरु अंतर्राष्ट्रीय हवाईअड्डा/ MANGALURU INTERNATIONAL AIRPORT



Price Schedule

Name of Work: : SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Mangaluru International Airport.

| SL NO | ITEM DESCRIPTION                                                                            | QTY         | Unit Cost | Total Cost            |
|-------|---------------------------------------------------------------------------------------------|-------------|-----------|-----------------------|
| 1     | 24 Port L2 Managed Gigabit Switch with 4 SFP combo ports.                                   | 05 Nos. ✓   | 54607.00  | 2,73,035.00           |
| 2     | 1G SFP Bi-Directional Module pair LC Connector, SM                                          | 05 Set ✓    | 47872.00  | 2,39,360.00           |
| 3     | 12 Core outdoor Armored OFC Cable SM required in addition to Station surplus stock of 2000M | 2650 M# ✓   | 47.50     | 1,25,875.00 ✓         |
| 4     | 24 Port LIU With splice tray and SC adaptor Panel                                           | 02 Nos. ✓   | 14030.00  | 28,060.00 ✓           |
| 5     | SC Pigtail SM 9/125 micron                                                                  | 48 Nos. ✓   | 244.00    | 11,712.00 ✓           |
| 6     | SC-LC OFC Patch Cord, Duplex 3M, SM                                                         | 10 Nos. ✓   | 1462.50   | 14,625.00 ✓           |
| 7     | HDPE Pipe 32mm                                                                              | 4500 M# ✓   | 28.75     | 1,29,375.00 ✓         |
| 8     | GI Pipe 2 inches                                                                            | 50 M# ✓     | 406.00    | 20,300.00 ✓           |
| 9     | PVC Pipe 1 inches                                                                           | 75 M# ✓     | 55.00     | 4,125.00 ✓            |
| 10    | OFC Joint Enclosure 12 Core                                                                 | 2 No.# ✓    | 2476.00   | 4,952.00 ✓            |
| 11    | OFC Route marker                                                                            | 50 Nos. ✓   | 650.00    | 32,500.00 ✓           |
| 12    | Saddle 1.5"                                                                                 | 6000 Nos# ✓ | 1.50      | 9,000.00 ✓            |
| 13    | Manhole with RCC Cover:                                                                     | 5 Nos.# ✓   | 5500.00   | 27,500.00 ✓           |
| 14    | OFC cable Laying - Hard Soils/ under road/ concrete surface                                 | 600 M#      | 200.00    | 1,20,000.00           |
| 15    | Laying OFC cable through open trench and wall                                               | 3650 M#     | 20.00     | 73,000.00             |
| 16    | Installation, Configuration, Testing and Commissioning work                                 | 1 Job.      | 75000.00  | 75,000.00             |
| 17    | <b>Total (Sl. no. 01 to 17)</b>                                                             |             |           | <b>₹ 11,88,419.00</b> |

(Grand Total: Rupees Eleven Lakhs Eighty Eight Thousand Four Hundred and Nineteen only)

GST Extra as applicable

# PAYMENT ON ACTUAL USED QUANTITY AS PER SITE REQUIREMENT.



(जी. रमेश कुमार)/ (G.RAMESH KUMAR)

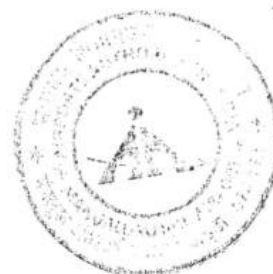
संयुक्त महाप्रबंधक (सीएनएस)/ JOINT GENERAL MANAGER (CNS),

सीएनएस इन-चार्ज/ CNS IN-CHARGE

समन्वय प्रभारी केलिए/ FOR COORDINATION IN-CHARGE

भारतीय विमानपत्तन प्राधिकरण/ AIRPORTS AUTHORITY OF INDIA

मंगलूरु अंतर्राष्ट्रीय हवाई अड्डा/ MANGALURU INTERNATIONAL AIRPORT



**Annexure-III**

**PORT CONSIGNEE**

**Name of Work: SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Mangaluru International Airport.**

**Name & Full Address of Port Consignees:**

**CNS In-Charge  
O/o Coordination In-Charge  
Airports Authority of India  
ATS Building,  
Mangaluru International Airport  
Bajpe, Mangaluru-574142(Karnataka)  
Tel 0824- 2220404 FAX No. 0824 – 2252427  
e-mail: [cnsicvoml@aai.aero](mailto:cnsicvoml@aai.aero)**

**AAI GSTIN:29AAACA6412D2Z3**

**Work Schedule:**

**SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Mangaluru International Airport should be completed within 60 days from the date of issue of work order.**



**DRAFT AGREEMENT WITH SUCCESSFUL BIDDER**

(Agreement no. AAI/ANS/CNS/VOML/2020/AGRMNT-04)

**AGREEMENT**

(On INR 100/- Non Judicial Stamp Paper)

**For SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Airports Authority of India, Mangaluru International Airport, Karnataka State,**

**Between**

**Airports Authority of India, Mangaluru International Airport,  
Bajpe , Mangaluru, Dekshina Kannada Dist, Karnataka-574142**

**And**

**M/s DATA LINKS.  
No. 51/4, Nettal Garden 2nd Street,  
Perambur,  
Chennai:-600011**

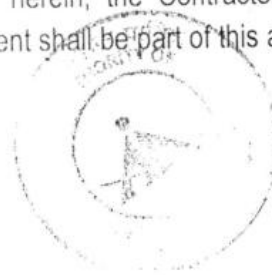
**THIS AGREEMENT**, entered into this \_\_\_\_\_(Date) day of \_\_\_\_\_ 2021 by and between M/s DATA LINKS. No. 51/4, Nettal Garden 2nd Street, Perambur, Chennai:-600011 (hereinafter called the "Contractor") and the Airports Authority of India having its office at Rajiv Gandhi Bhawan, Safdarjung Airport, New Delhi, India and operational office at ATS Building, Mangaluru International Airport, Bajpe, Mangaluru, D.K. District, Karnataka (hereinafter called the "AAI"), the expressions "Contractor" and "AAI" shall mean their successors, legal representatives or assigns, for SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Airports Authority of India, Mangaluru International Airport, Mangaluru, Dekshina Kannada dist., Karnataka State.

**WITNESSETH**

**WHEREAS**, AAI invited offers for the SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Airports Authority of India, Mangaluru International Airport, Mangaluru, Dekshina Kannada dist., Karnataka State vide E-Tender No. AAI/ANS/CNS/VOML/2020/OFC RING/T-03 dated. 22/10/2020. E-Tender ID.: 2020\_AAI\_60492\_01.

**WHEREAS**, the Contractor has offered for SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Airports Authority of India, Mangaluru International Airport, Mangaluru, Dekshina Kannada dist., Karnataka State in accordance with their E-Bid No. 214437 dated 09/11/2020 submitted through CPPP and AAI has accepted its offer.

**NOW**, therefore, in consideration and mutual covenants contained herein, the Contractor and the AAI (hereinafter referred to as the "parties") agree that the following document shall be part of this agreement:-



1. AAI Tender Documents No AAI/ANS/CNS/VOML/2020/OFC RING/T-03 dated. 22/10/2020 ( E-Tender ID.: 2020\_AAI\_60492\_01.) for the SITC of Conversion of NAV-Aids RCMS Fiber Network to Ring Topology at Airports Authority of India, Mangaluru International Airport, Mangaluru, Dekshina Kannada dist., Karnataka State comprised in Volumes-1 (Numbers), including Drawings and Maps supplied by AAI.
2. Tender corrigendum no. Nil dated Nil
3. Tender clarifications offered by AAI subsequent to the Pre-Bid meeting held on NIL.
4. E-Bid Documents No. 214437 submitted by the Contractor dated 09/11/2020 in fulfilling the contract requirements that includes the signed compliance.
5. Unconditional acceptance of AAI Tender conditions as given by the Contractor.
6. Queries raised by AAI during technical evaluation and technical clarifications submitted by the contractor in response thereof.
7. The price bid of the Contractor which was opened on 01/01/2021 and accepted by AAI.
8. Purchase order No. AAI/ANS/CNS/VOML/2020/OFC RING/PO-07 dated. 02/02/2021 issued & its acceptance by the contractor

For and on behalf of Contractor

For and on behalf of Chairman, AAI.

Signature:

Signature:

Name of the Executive:

Name:

Designation:

Designation:

1. Witness : (Signature, Date, Name, Designation on behalf of AAI)

2. Witness : (Signature, Date, Name, Designation on behalf of Contractor)



Annexure-V**PROFORMA BANK GUARANTEE FOR CONTRACT PERFORMANCE**

(To be stamped in accordance with Stamp Act)

(The non-judicial stamp paper should be in the name of issuing Bank)

BANK GUARANTEE

To

The Coordination in-Charge

Airports Authority of India

ATS Building

Mangaluru International Airport

Bajpe P.O. D.K Dist,

Karnataka-574142

Bank Guarantee No. &amp; Date \_\_\_\_\_

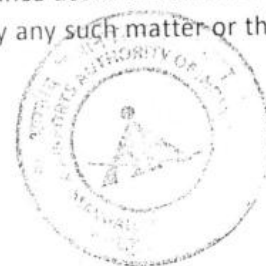
Bank Guarantee Value: \_\_\_\_\_

Guarantee Valid up to: \_\_\_\_\_

Last Date for Lodgment of Claim: \_\_\_\_\_

Dear Sir,

1. We, the Bank \_\_\_\_\_ (Name & Address of the bank) \_\_\_\_\_ hereby refer to the Purchase Order No. \_\_\_\_\_ dated \_\_\_\_\_ between the Airports Authority of India (as Purchaser) and M/s. \_\_\_\_\_ (name & address of contractor) \_\_\_\_\_ providing substance for the work \_\_\_\_\_ to which specific reference is made under the terms of the said contract, the Contractor is required to provide a Bank Guarantee in the form acceptable to the Purchaser in the amount of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) extending to the performance by the seller of all the terms and conditions of the contract.
2. In view of the foregoing and pursuant to the terms of the said contract, which contract is referred to and made a part thereof as fully and to the same extent as it copied at length therein, we hereby absolutely and unconditionally guarantee to the Purchaser performance of the terms and conditions of the said agreement to the extent of Rs. \_\_\_\_\_.
3. This guarantee shall be construed as an absolute, unconditional and direct guarantee of the performance of the contract without regard to validity, regularity or enforceability of any obligation of the parties of the contract. The Purchaser shall be entitled to enforce this guarantee without being obliged to report initially to any other security or any other remedy to enforce any of the obligations herein guaranteed and may pursue any or all its remedies at one or at different times. Upon default of the contract item(s), we agree to pay to Purchaser on demand and without demur, the sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) or any part thereof upon presentation of a written statement by the Purchaser that the amount of said demand represent damages due from the Seller under the terms of the aforesaid contract. The determination of the fact of breach and the amount of damages sustained and/or liability under this guarantee shall be in the sole discretion of the Purchaser, which decision shall be conclusive and binding on the bank as guarantor.
4. It is mutually agreed that the Purchaser shall have the fullest liberty without effecting in any manner our obligations hereunder with or without our consent to vary any of the term of the said agreement or to extend the time or performance by the Seller from time to time, any of the powers exercisable by the Purchaser against the Seller and either to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any variation of any extension being granted to the Seller or for any forbearance act or omission on the part of the Purchaser or any indulgence by the Purchaser to the Seller or by any such matter or thing whatsoever,



which under the law relating to sureties would but for this provision has effect of so relieving our obligations.

5. We undertake to pay to the Airports Authority of India, New Delhi, money so demanded notwithstanding any dispute or disputes raised by the Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.
6. The payment so made by us under this bond shall be valid discharge of our liability for payment thereunder and the supplier shall have no claim against us for making such payment.
7. This guarantee will not be discharged due to the change in the constitution of the Bank of the Supplier.
8. We, the Bank \_\_\_\_\_ do hereby undertake that the payment against this guarantee should be available to Airports Authority of India on the first demand and not withstanding any contestation of dispute by the party furnishing the guarantee.
9. We, the Bank \_\_\_\_\_ undertake not to revoke this guarantee during its currency except with the previous consent of the Airports Authority of India in writing.
10. We the Bank \_\_\_\_\_ undertake that our liability under the guarantee is restricted to Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_)
11. Our guarantee will remain in force till \_\_\_\_\_.
12. The amount under the Bank Guarantee is payable without any demur, merely on demand from the beneficiary. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee and where the decision of the beneficiary in these counts shall be final and binding on the Bank. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_.
13. Notwithstanding anything herein contained, our liability under the guarantee shall:
  - a) Be limited to a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only)
  - b) Stand completely discharged and all your rights under the guarantee shall stand extinguished if no claim or demand is made upon us in writing and received by us on or before \_\_\_\_\_.

Approver-1

Name:

Designation:

Emp ID:

Approver-2

Name:

Designation:

Emp ID:

Issuing bank E-mail

Approving bank E-mail

**Note: (not a part of PBG)**

- 1) Prior approval shall be taken for any amendment in the PBG format.
- 2) No correction, omission or insertion is permitted in the PBG
- 3) Full bank Address, IFSC code, PBG No. & date, Validity and Claim up to shall be clearly specified in the PBG. Address & email of regional/controlling branch shall be provided.
- 4) PBG details shall be confirmed through SFMS by the bank and also through mail on request
- 5) Name & Employee code of the officer signing the PBG shall be clearly spelt in PBG.



**PROFORMA OF LETTER FOR E-PAYMENT**

To,

The Coordination In-Charge  
Airports Authority of India  
ATS Building, Mangaluru International Airport  
Bajpe, Mangaluru, Karnataka – 574142  
**Subject: Request for E-Payment.**

Sir,

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

| S. No. | Particulars Details                       | Remarks |
|--------|-------------------------------------------|---------|
| 1      | Name of the Party                         |         |
| 2      | Office Address                            |         |
| 3      | Type of Bidder's Company                  |         |
|        | (a) Sole Proprietor                       |         |
|        | (b) Partnership                           |         |
|        | (c) Private Ltd. Company                  |         |
|        | (d) Public Ltd. Company                   |         |
| 4      | Name of Bank in which Party maintains A/c |         |
| 5      | Bank Branch Code                          |         |
| 6      | Bank Account No.                          |         |
| 7      | IFSC Code                                 |         |
| 8      | PAN No.                                   |         |
| 9      | GST Registration Details.                 |         |
| 10     | Vendor Classification for GST             |         |
| 11     | MICR Code                                 |         |
| 12     | NEFT Code                                 |         |

We also enclose herewith a duly cancelled cheque of our bank account.

Thanking you,

Signature of authorized signatory  
With seal

Yours faithfully

Note: Any erroneous information may lead to harmful transaction for which neither AAI or the Bank will be liable/ responsible.



## Annexure-VII

GST Registration detailsAirports Authority of India  
Mangaluru International Airport

| Sl. No. | Particulars                      |                        |
|---------|----------------------------------|------------------------|
| 1       | Building No./Flat No.            |                        |
| 2       | Road/ Street                     |                        |
| 3       | Locality/Village                 | Bajpe                  |
| 4       | State                            | Karnataka              |
| 5       | District                         | Dakshina Kannada       |
| 6       | PIN Code                         | 574142                 |
| 7       | Office E-mail Address            | apd_mangalore@aai.aero |
| 8       | Mobile Number                    | 9483523178             |
| 9       | Office Telephone No.             | 0824-2220400           |
| 10      | Office Fax No.                   | 0824-2254175           |
| 11      | Nature of possession of premises | Own Premises           |
| 12      | Migrated GST ID                  | 29AAACA6412D2Z3        |
| 13      | ARN                              | AA290417048787J        |

The GST ID of the Airports Authority of India & the contractor and HSN/SAC code of the items/works should be specified in the Invoice.

**Signature Not Verified**Digitally signed by DAGADALA  
SRIKANTH GOUD

Date: 2024.08.13 13:05:18 IST

Location: eProcurement System for  
Central PSUs