

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
NATIONAL REMOTE SENSING CENTRE (NRSC)
HYDERABAD**

**Tender for Supply, Installation and Commissioning of Ka band
satellite link for Antarctica connectivity**

Bids to be submitted online

Tender No.: NRSC/PURCHASE UNIT 2/NR202200032601 dated 16-05-2023

A. Tender Details

| | |
|------------------------|--|
| Tender No : | NRSC/PURCHASE UNIT 2/NR202200032601 |
| Tender Date : | 16-05-2023 |
| Tender Classification: | GOODS |
| Purchase Entity : | PURCHASE UNIT 2 |
| Centre : | NATIONAL REMOTE SENSING CENTRE (NRSC) |

Global Tender Enquiry for Supply, Installation and Commissioning of Ka band satellite link for Antarctica connectivity

e-Tenders are invited for 'Supply, Installation and Commissioning of Ka band satellite link for Antarctica connectivity'. Interested tenderers may login to <https://eproc.isro.gov.in> and submit their offers through Online only. The tender should be submitted in the NRSC Centre link before the due date and time as specified in the tender schedule. All enquiries regarding the tenders and submission of offers shall be online and only through our eProcurement portal. Vendors may approach help desk e-mail id and phone number given on the home page for any technical help(e-mail: eproc@vssc.gov.in and Ph: +91471 2565454/4574/2527/3753/3289).NRSC eprocurement support e-mail :eprocurementsupport@nrsc.gov.in. Contact No.-0402388-4016,0854222-5070/71. For any other queries, please mail to purchase_unit2@nrsc.gov.in

A.1 Tender Schedule

| | |
|------------------------------|-------------------------|
| Tender Publish Date : | 16-05-2023 14:00 |
| Bid Clarification Due Date : | 26-05-2023 17:00 |
| Bid Submission Start Date : | 26-05-2023 17:01 |
| Bid Submission Due Date : | 16-06-2023 14:00 |
| Bid Opening Date : | 16-06-2023 14:01 |
| Price Bid Opening Date : | 31-07-2023 11:00 |

A.2 Pre-bid Meeting Details

Date : 26-05-2023 14:00

Place : National Remote Sensing Centre- Earth Station,ISRO

Location : NRSC-ES, Annaram Village, Shadnagar 509202, Telangana

Centre : NATIONAL REMOTE SENSING CENTRE (NRSC), HYDERABAD, TELANGANA

Details : Pre-bid meeting between NRSC and the prospective vendors interested in submitting proposals will be held at NRSC, Shadnagar. During this meeting, vendors can seek clarifications required by them to generate proposals. If required, vendors can participate in the pre-bid meeting through virtual mode. Prior information of the details of the persons to be informed to NRSC. NRSC strongly recommends participation of vendors in pre-bid meeting for clarity on Technical and commercial aspects.

Participation by the vendors in pre-bid meeting scheduled is at their own cost. Those who wish to participate shall send their willingness regarding their participation with name, position, address and contact details at least four days in advance before the pre-bid meeting. Foreign nationals must indicate their nationality and passport details. A scanned copy of the valid passport along with the valid visa (Business or Conference) should be sent to
The Head, Purchase and Stores Division,
Purchase Unit-2, National Remote Sensing Centre, ISRO, Shadnagar,509202, Telangana, India.
Email: hpsd@nrsc.gov.in, purchase_unit2@nrsc.gov.in.

Any change in venue for pre-bid meeting will be displayed in e-procurement portal. The addendum/corrigendum if any, after the pre-bid meeting shall be published in e-procurement portal. The bid submitted by the vendors must comply with the RFP along with the addendum/corrigendum published. Vendor shall provide technical discussion on the proposed system at NRSC, Shadnagar premises during the pre-bid meeting.

B. Tender Attachments

NA

Instructions To Vendors

1. Tender Terms & Conditions for imported stores

1. Appendix-I

PROFORMA FOR

BANK GUARANTEE FOR SECURITY DEPOSIT

(from Indian Agents on behalf of foreign principals)

(On non-judicial stamp paper of appropriate value)

1.WHEREAS on or about the.....(date),M/S.

..... having its Office at(hereinafter referred to as the Contractor entered into a Contract bearing No.....dated.....(here in after referred to as The Contract with the President of India(hereinafter referred to as the Government)for supply of (hereinafter referred to as the Equipment). The Contract Recognizes that M/sas the Indian Agent of the Contractor in India who will furnish the Security Deposit bond on behalf of the Contractor for satisfactory performance of the Contract as per the terms and conditions contained in the said Contract.

2.AND WHEREAS under the terms and conditions of the Contract, an amount of ` (Rupees only) representing around%of the Contract value is to be furnished as Bank Guarantee by the Indian Agent on behalf of the Contractor, in a manner herein contained, duly executed by the(Bank)towards satisfactory performance of the Contract.

3.We,(name of the Bank &address)[hereinafter referred to as the Bank'] at the request of M/S,authorised Indian Agent of the Contractor, do hereby undertake to pay to the Accounts Officer of the (name & address of the Centre/Unit) on behalf of the Government (hereby referred to as the Accounts Officer), an amount not exceeding `(Rupeesonly) against any loss or damage caused to or suffered or would be caused to or suffered by the Government by reason of any breach by the said Contractor of any of the terms and conditions contained in the said Contract.

4. WE, (Bank) do hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the said Accounts Officer, stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reason of breach by the said Contractor of any of the terms and conditions contained in the said Contract or by reason of the Contractor's failure to perform the said Contract. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank

under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding `(Rupees..... only).

5. WE, (Bank) undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes

raised by the Contractor, in any suit or proceedings pending before any Court or Tribunal relating thereto, our liability under this present guarantee being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment thereunder and the Contractor shall have no claim against us for making such payment.

6. WE, (Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said Contract have been fully paid by the said Contractor and its claims satisfied or discharged or till the said Accounts Officer certifies that the terms and conditions of the said Contract have been fully and properly carried out by the said Contractor and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before.....(date)[two months beyond the Contract completion date], we shall be discharged of all liabilities under this guarantee thereafter.

7. WE, (Bank) further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contractor to extend time for performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said Contractor and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation/s or extension being granted to the said Contractor or for any forbearance, act or commission on the part of the Government or any indulgence by the Government to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

8. THIS GUARANTEE will not be discharged due to the change in the constitution of the Bank or the Contractor.

9. WE, (Bank) lastly undertake not to revoke this guaranteed during its currency except with the previous consent of the Government in writing.

Place:

Date:

(Signature of the Authorised Officer of the Bank)

(Name and designation of the officer)

Seal

Name, Address of the Bank (Head Office) with Phone/FaxNos. Name & Address of the Branch with Phone/Fax Nos.

Appendix-II

PROFORMA FOR PERFORMANCE BANK GUARANTEE (from Indian Agents on behalf of foreign principals)

(On non-judicial stamp paper of appropriate value)

1. WHEREAS on or about the.....day of(month& year),M/s(name & address of the foreign supplier) having its office at (hereinafter referred to as 'the Contractor') entered into an agreement bearing No. (hereinafter referred to as 'the Contract') with the President of India (hereinafter referred to as 'the Government') for the supply of (hereinafter referred to as 'the Equipment'). The Contract recognizes that M/s(name& address of the Indian Agent) of the Contractor in India will furnish a Performance Bond on behalf of the Contractor for satisfactory functioning of the equipment during warranty period while releasing% payment to the contractor.

2.AND WHEREAS under the terms and conditions of the Contract, an amount of `..... (Rupeesonly) representing% payment of the FOB value of the Contract is to be paid to the Contractor after reducing the agency commission subject to the Indian Agent furnishing a Bank Guarantee on behalf of the Contractor for 10% of order value amounting to ` (Rupees only) in a manner herein contained towards satisfactory performance of the equipment during warranty period, viz.,.....months from the date of acceptance/commissioning of the said equipment or months from the date of despatch of the last lot of consignment, whichever is earlier (specify as per warranty clause in the Purchase Order).

3.NOW WE,(name & address of the Bank) on behalf of M/S. (Indian Agent) in consideration of the promises and the payment of the said sum of ` (Rupees only) by the Government to the Contractor, do hereby agree and undertake to pay to the Accounts Officer, (name of the Centre/Unit) on behalf of the Government (hereinafter referred as the Accounts Officer), the amount due and payable under the guarantee without any demur, merely on a demand from the said Accounts Officer stating that the amount claimed is due by way of loss or damage caused to or suffered by the Government by reason of unsatisfactory performance of the equipment during the warranty period. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, the Bank's liability under this guarantee shall be restricted to an amount not exceeding `.....(Rupees.....only).

4.WE UNDERTAKE to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the Contractor or their subsidiary companies, in any suit or proceedings pending before any Court of Law or Tribunal relating thereto, our liability under this present guarantee being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor shall have no claim against us for making such payment.

5.WE HEREBY further agree that the decision of the said Accounts Officer as to whether the said equipment is giving satisfactory performance or not during the warranty period and as to the amount of damages suffered by the Government on account of unsatisfactory performance of the said equipment shall be final and binding onus.

6.AND WE, (bank) do hereby agree that our liability hereinunder shall not be discharged by virtue of any agreement between the Government and the Contractor or their subsidiary company whether with or without our knowledge and/or consent or by reason of the Government showing any indulgence or forbearance to the Contractor whether as to payment, time for performance, or any other matter whatsoever relating to the Contract which, but for this provision, would amount to discharge of the surety under the law.

7.THIS guarantee will not be discharged due to the change in the constitution of the Bank or the

Contractor or their subsidiary company.

8.OUR Guarantee shall remain in force until (two months beyond the Contract warranty period) and unless a claim under the guarantee is lodged with us on or before the above date, all rights of the Government under the guarantee shall be forfeited and we shall be relieved and discharged from all our liabilities hereunder.

Dated theday of(month &year).

(Signature of the Authorised Officer of the Bank)
(Name and designation of the officer)

Seal
Phone/Fax Nos.
Name & Address of the Branch with Phone/Fax Nos.

Name, Address of the Bank (Head Office) with

PERFORMANCE BANK GUARANTEE

(from foreign suppliers)

(to be issued by the bankers of the foreign supplier)

1. WHEREAS on or about the.....day of (month & year), M/S.....having its Registered Office at(hereinafter called 'The Contractor') entered into an Agreement No.dated..... hereinafter called 'The Contract') for manufacture and supply of with the President of India (hereinafter called 'The Purchaser').

2. AND WHEREAS, under the terms and conditions of the Contract final payment amounting to `..... (Rupees only) under the Contract is to be made against a performance bond in the form of bank guarantee furnished by the Contractor for a sum of `(Rupees only) equivalent to 10% (ten per cent) of the value of the Contract towards satisfactory performance of the (hereinafter called 'the Equipment') valid for a period of 12 months from the date of putting into operation of the said equipment or months from the date of receipt of the last lot of consignment whichever is earlier (specify as per warranty clause in the Purchase Order).

3. NOW WE, (name & address of the Bank) in consideration of the promises and payment of the final/balance amount of..... (Rupees only) under the Contract to the Contractor hereby agree and undertake to pay on demand and without any demur to the Accounts Officer, (name of the Centre/Unit) on behalf of the Purchaser (hereinafter referred to as the Accounts Officer), a sum not exceeding `..... (Rupees only) against any loss or damage that may be suffered by the Purchaser by the reasons of any unsatisfactory performance of the said equipment.

4. AND WE, (Bank) hereby also agree that the decision of the said Accounts Officer as to whether the said equipment is giving satisfactory performance or not and as to the amount of loss or damages suffered by the Purchaser on account of unsatisfactory performance of the said equipment shall be final and binding on us.

5. AND WE, (Bank) hereby further agree that our liability hereunder shall not be discharged by virtue of any agreement between the Purchaser & the Contractor whether with or without our knowledge and/or consent or by reason of the Purchaser showing any indulgence or forbearance to the Contractor whether as to payment, time for performance or any other matter whatsoever relating to the Contract which, but for this provision, would amount to discharge of the surety under the law.

6. OUR GUARANTEE shall remain in force until (two months beyond Contract warranty period) and unless a claim under the guarantee is lodged with us on or before the above date, all rights of the Purchaser under the Guarantee shall be forfeited and we shall be relieved and discharged from all our liabilities hereunder. Our liability under this guarantee shall not be affected by any change in our

constitution or the constitution of the Contractor.

Dated the day of(month &year).

For.....

(name of theBank)

Postal address of the Bankand

Fax No.& e-Mailid)

Seal of the Bank

Appendix-IV

PROFORMA FOR COMBINED BG TOWARDS SD CUM PBG (from Indian Agents on behalf of Foreign suppliers)

(On non-judicial stamp paper of appropriate value)

1. In consideration of the President of India (hereinafter called the Government)having agreed to exempt----- (hereinafter called the said contractor(s)) from the demand under the terms and conditions of an agreement dated-----made between -----and -----for -----(hereafter called said agreement), of security deposit of the due fulfilment by the said contractor (s) of the terms and conditions contained in the said Agreement, on (Rupees-----Only) We,----- (here in after)referred (indicate the mane of the bank)to as the Bank at the request of -----[contractor (s)] do hereby undertake to pay to the Government an amount not exceeding. Rs.-----against any loss or damage caused to or suffered or would be caused to or suffered by the Government by the reason of any breach by the said Contractor (s) of any of the terms or conditions contained in the said Agreement.

2. We----- (indicate the name of the bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reason of breach by the said contractor(s) of any of the terms of conditions contained in the said Agreement or by reason of the contractor(s) failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.-----

-----.

3. We undertake to pay to the Government any money so demand not withstanding any dispute or disputes raised by the contractor (s)/supplier (s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.
The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor (s)/supplier (s) shall have no claim against us for making such payment.
4. We -----(indicate the name of bank) further agree that the guarantee contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharge^{3d} or till-----office/Department/Ministry of -----certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractors(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the -----we shall be discharged from all liability under this guarantee thereafter.
5. We----- (indicate the name of bank) further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor (s) from time to time or to postpone for any time of from time to time any of the powers exercisable by the Government against the said Contractor(s) and 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 such variation, or omission on the part of the such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee shall be treated as bank guarantee towards warranty after the acceptance of items and fulfilment of all obligations other than warranty as per DOS purchase order.
7. In accordance with the terms of said contract the contractor has undertaken to produce a bank guarantee for Rs.----- (Rupees ----- only) being -----% of the total value of the said stores supplied to you, for the due fulfilment of its obligations to the president of India for due performance as per the contract during warranty period .
8. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor (s)/Supplier(s).
9. We----- (indicate the name of bank) lastly undertake not to revoke this guarantee during its currency except with previous consent of the Government in writing.

10. Notwithstanding anything herein contained, out liability under this guarantee is restricted to Rs.---
------(Rupees-----only) and the guarantee shall remain in force up to and including the -----day of being reported to us by you and returned to us duly discharged.

11. Unless a demand or claim under this guarantee is made on us in writing on or before the aforesaid expiry date as provided above or unless this guarantee is extended by us all your rights under this guarantee shall be prescribed and we be discharged from the liabilities hereunder.

12. This guarantee shall not be affected by any changed in the constitution of our Bank or of the contractor or for any other reason whatsoever.

13. Dated the -----day of -----
for -----(indicate the name of the Bank).

Name of the Bank:-

Phone No:-

Fax No:-

Appendix-V

PROFORMA FOR BANK GUARANTEE FOR FREE ISSUE MATERIAL

(On non-judicial stamp paper of appropriate value)

WHEREAS on the (day, month & year),M/s. _____ having their Registered Office at _____ (hereinafter referred to as The Supplier entered into a Contract bearingNo. (hereinafter referred to as The Contract) with the President of India (hereinafter referred to as The Government) for the supply of _____

AND WHEREAS under the terms and conditions of the Contract, payments are to be made by the Government to the Supplier as mentioned in the Contract.

AND WHEREAS the Government has agreed in pursuance of the said terms and conditions of the

Contract to supply materials to the supplier on the furnishing of a Bank Guarantee in the manner herein contained.

Now WE, (Bank) in consideration of the Government having agreed to supply the materials to the supplier equal to (Rupees .. only) hereby agree and undertake to indemnify the Government and keep the Government indemnified to the extent of a sum not exceeding the paid sum of(Rupeesonly) against any damage or loss that may be suffered by the Government by reason of non-fulfilment of any of the terms and conditions of the Contract by the Supplier.

AND WE, (Bank) hereby undertake to pay on demand and without demur to the Accounts Officer of the (name & address of the Centre/Unit), on behalf of the Government (hereby referred to as The Accounts Officer), a sum not exceeding (Rupees only) as may be ascertained by the said Accounts Officer as damage or loss that the Government might have suffered by reason of the non-fulfilment of any of the terms and conditions of the Contract by the Supplier.

AND WE (bank) hereby further agree that the decision of the said Accounts Officer as to whether the supplier has committed breach of any such terms and conditions of the Contract or not and as to the amount of damage or loss, or loss assessed by the said Accounts Officer as damage or loss suffered by the Government on account of such breach, would be final and binding on us (the Bank).

AND WE, (Bank), hereby agree that our (Bank's) liability hereunder shall not be discharged by virtue of any arrangement between the Government and the supplier whether with or without our knowledge and/or consent or by reason of the Government showing any indulgence or forbearance to the supplier whether as to payment, time performance or any other matter whatsoever which, but for this provision, would amount to discharge of the surety under the law.

The Guarantee shall remain in force until or until the delivery of the Contracted stores and unless a claim under the guarantee is lodged with us (Bank) within six months from the date of expiry of this guarantee, viz all rights of the Government under the guarantee shall be forfeited and we (Bank) shall be relieved and discharged from all liabilities hereunder.

(Signature of the Authorised Officer of the Bank)

(Name and designation of the officer)Seal Name, Address of the Bank (Head Office) with Phone/Fax Nos. Name & Address of the Branch with Phone/Fax Nos.

2. INSTRUCTIONS TO TENDERERS

1.1 National Remote Sensing Centre [NRSC] has implemented e-tender system for ONLINE tenders. NRSC invites offers through e-tender portal <https://eproc.isro.gov.in> for the supply of Stores/Services. The suppliers need to get enrolled in the e-tender portal to access tender and submit their offer online.

Vendors need to have Digital Signature Certificate as detailed on our e-portal and corporate e-mail ID to register on the above portal. Only online tenders will be accepted. MANUAL/POSTAL/COURIER/E-MAIL/FAX OFFERS WILL NOT BE CONSIDERED.

1.2 Interested tenderers may login to <https://eproc.isro.gov.in> and submit their offers through Online only.

1.3 The Vendors are requested to submit the Bids online at least two days prior to closing date to avoid last minute computer network related problems. Request for the extension of the due date will not be considered.

1.4 All the Vendors should regularly browse the e-mail being sent from e-procurement portal for initiating appropriate action or for any updates on the Tender.

1.5 All enquiries regarding the tenders and submission of offers shall be online and only through our eProcurement portal. Vendors may approach help desk e-mail id and phone number given on the home page for any technical help.

1.6 In case bidder encounters any technical snag pertaining to e-procurement system while acting on the tender, computer screen shot of the error message with date & time stamp on the web-browser along with the query shall be e-mailed by the bidder to the help desk (as mentioned above) for problem resolution well in advance before the due date and time of the tender. NRSC is not responsible for any delay in resolving the technical snag, which has not communicated to our help desk in writing along with the screen shots within the due date and time of bid submission.

1.7 NRSC shall not be responsible for failure of vendors in submitting bids online caused due to technical reasons at vendor end such as network or power failures, computer failure, internet-browser, mistakes / errors in filling the bids on line by vendor etc.

1.8 The Server Date & Time as appearing on our website <https://eproc.isro.gov.in> shall only be considered for the cut-off date and time for receipt of tenders.

1.9 Please note that unsolicited clarifications / changes / modifications sought by the vendors after submitting their bids will not be considered.

1.10 No Tender fee shall be payable for submission of tender through e-procurement.

1.11 Quote should be submitted in Single Part/Two Part as specified in the Tender Enquiry.

1.12 Our Tender Enquiry contains technical requirements and specification. The detailed technical specification along with Commercial Terms and Conditions of your offer should be covered in Technical Bid i.e. Part-1 [Techno-Commercial] and Part -2 [Price Bid].

1.13 In the case of Two Part Tender, Price details should NOT be disclosed in the Part-1 [Techno-Commercial Bid] and in any other attachments enclosed in the Technical Bid. IN CASE, PRICE DETAILS ARE MENTIONED IN THE PART-I, THE OFFERS OF THE SAME WILL BE SUMMARILY REJECTED. The Technical documents need to be attached online as a single PDF file without any

price information. Prices are required to be quoted according to the units indicated, in the Part-2 [Price Bid] only.

1.14 In case of Two Part Tender, Commercial Terms to be covered in the Part-1 [Techno-Commercial Bid] such as Delivery Terms as per (INCOTERMS), Delivery Period, Payment Terms (without mentioning the price or amount, Security Deposit for execution of Contract, Whether items needs Export License, Validity of the Offer, Warranty/Guarantee, Performance Guarantee for fulfilment of Warranty obligation , Liquidated Damages (for delayed supplies) and All available technical literature, catalogues and other data in support of the specifications and details of the items etc, have to be filled up on line.

1.15 In case of imported stores, Delivery Terms FOB/FCA shall be preferred, however the vendors can quote applicable INCOTERMS against the tender.

1.16 Specification: Stores offered should strictly conform to our specification. Deviations, if any, should be clearly indicated by the Tenderer in their quotation. The Tenderer should also indicate the Make / Type number of the Stores offered and upload catalogues, technical literature along with the quotations and provide samples wherever necessary. Test Certificates wherever necessary should be forwarded along with Supplies. Whenever options are called for and specifically mentioned by us, the Tenderer could suggest changes to specifications with appropriate response for the same.

1.17 Indian agents while quoting on behalf of their Principals are requested to attach necessary authorization letter [PDF file] from their Principals.

1.18 The Purchaser shall be under no obligations to accept the lowest or any tender and reserve the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the Tenderers shall supply the same at the rates quoted.

1.19 In case of Two-Part Public/Open Tender, the exact date and time of opening of Price Bid of successful Tenderers will be intimated later. The opening date and time informed by NRSC shall be subject to changes due to Network/ Computer Server related problems. In such instances, the tender opening may get delayed by one or two days and the exact date and time of opening will be intimated later in case of Public or Open Tender.

1.20 The Tenderer should supply along with his tender the Name of his Bankers, if required by the Purchaser.

1.21 The Purchaser reserves the right to place order on the successful Tenderers for additional quantity up to 25% of the quantity offered by them at the rates quoted.

1.22 NRSC reserves the right to cancel the tender at any point of time, by recording the reasons thereof.

1.23 Foreign Vendors, Registered Vendors or Vendors who have already applied for Renewal of Registration, Central PSUs/PSEs/Autonomous Bodies, Micro and Small Enterprises, KVIC, National Small Industries Corporation etc., shall be exempt from the payment of EMD.

1.25 Approximate Net and Gross weight of the items offered shall be indicated in your offer. If

dimensional details are available the same should also be indicated in your offer.

1.26 Evaluation of the tenders shall be done item-wise technically suitable lowest offers in order to arrive L1, unless any other specific terms are mentioned in the tender document.

STANDARD TERMS & CONDITIONS OF TENDER FOR IMPORTED PROCUREMENTS

2.0 Terms and Conditions:

2.1 Definitions:

(a) The term 'Purchaser' shall mean the President of India represented by Director or Head, Purchase and Stores, National Remote Sensing Centre [NRSC] Hyderabad or his successors or assigns.

(b) The term 'Contractor' shall mean the person, firm or company, with whom or with which the Order for the supply of Stores is placed and shall be deemed to include the Contractor

Successors/Representative, Heirs, Executors and Administrators unless excluded by the Contract.

(c) The term 'Purchase Order' shall mean the communication signed on behalf of the Purchaser by an officer duly authorized intimating the acceptance on behalf of the Purchaser on the terms and condition mentioned or referred to in the said communication accepting the Tender or offer of the Contractor for supply of Stores or Plant, Machinery or part thereof.

(d) The term 'Stores' shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants and machinery and subsequent testing should such a condition be included in the Purchase Order.

3.0 Prices:

Tenders offering Firm and Fixed Prices will be considered. Where a price variation clause is insisted upon by a Tenderer for quotations a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variations.

4.0 Terms of Payment in case of Overseas Supplier[s]:

4.1 Being a Government of India Department, the normal terms of payment are by Sight Draft [SD]. Our normal payment terms are Sight Draft through State Bank of India. For high value orders, 80% payment through Sight Draft and balance 20% upon satisfactory completion of installation and acceptance of the equipment and on production of a Performance Bank Guarantee for 10% of the Order value valid till 2 months after the expiry of warranty period.

However, other terms of payment like establishment of Letter of Credit [LC] may be considered by the Purchaser on such terms and conditions as may be agreed upon.

4.2 The Sight Draft/Letter of Credit will be operative on presentation of the following documents:
(a) Original Bill of Lading/Airway Bill. (b) Commercially certified Invoices in triplicate describing the Stores delivered, Quantity Unit Rate and their Total Value. The Invoice should indicate the discounts, if any and Agency Commission separately. (c) Packing List showing individual Dimensions and Weight of the Packages. (d) Country of Origin Certificate can be declared on the Invoice. (e) Test Certificate. (f) Declaration by the Seller that the Contents in each case are not less than those entered in the Invoices and the quality of the Stores are guaranteed as per the specification asked by the Purchaser. (g) Warranty and Guarantee Certificates.

4.3 Packing:

(a) The Contractor wherever applicable shall pack and crate all Stores for Sea/Air shipment as applicable in a manner suitable for export to a tropical humid climate, in accordance with Internationally accepted Export practices and in such a manner so as to protect it from damages and deteriorations in transit by Road, Rail or Sea. The Contractor[s] shall be held responsible for all damages due to improper packing.

(b) The Contractor shall ensure that each Box/Unit of shipments are legible and properly marked for correct identification. The failure to comply with this requirement shall make the Contractor liable for additional expenses involved.

(c) The Contractor shall notify the Purchaser of the date of shipment from the Port of Embarkation as well as the expected date of arrival of such shipment at the designated Port of Arrival.

(d) The Contractor shall give complete shipment information concerning the Weight, Size, content of each packages etc.,

(e) Trans-shipment of Stores shall not be permitted except with written permission of Purchaser.

(f) Apart from the dispatch documents negotiated through Bank, the following document shall also be airmailed to the Purchaser within 7 days from the date of shipment by Sea and within 3 days in case of Air Consignment:

a. Commercial Bill of Lading/Air Way Bill, Post Parcel Receipt (two non-negotiable copies).

b. Invoice (3 copies).

c. Packing List (3 copies).

d. Test Certificates (3 copies).

e. Certificate of Origin as declared in the Invoice.

f. Warranty/Guarantee Certificate

Contractor shall also ensure that one copy of the Packing List is enclosed in each case/box.

5.0 (a) Part shipment is not allowed unless specifically agreed to by us.

(b) As far as possible, Stores should be dispatched by Indian Flag Vessel / Air India or through any Agency nominated by us.

6.0 Import Licence:

All Imports are being covered under Free Importability under Para 2.1 of Chapter 2 of EXIM Policy 2015-2020 of Government of India. No separate Import License is required. If it is required subsequently, Department will obtain necessary Import License. Similarly, if Export License is required, the Tenderer[s] shall mention the same while submitting the offer.

7.0 Address of Indian Agent:

In case of the overseas Supplier, please mention the Name and complete Postal Address of their Indian Agent with necessary details regarding Type of Relationship, Proof of Certificate if any.

8.0 Guaranteed Time of Delivery:

The time for and the date of delivery of Stores will be deemed to be the essence of the Purchase Order/Contract failing which Purchaser reserves the right to Cancel the Order/Contract at his discretion.

9.0 Inspection and Acceptance Tests:

9.1 The Purchaser's representatives shall also be entitled at all reasonable times during manufacture to Inspect examine and test at the Contractor's premises, the material and workmanship of all Stores to be supplied under this contract and if part of the said Stores is being manufactured on other premises, the Contractor shall obtain the Purchaser's representative permission to inspect, examine and test and shall not release the Contractor from the obligations under this Contract.

9.2 For tests conducted at the premises of the Contractor or any of his sub-contractors, the Contractor shall Provide Free of Cost Assistance, Labour, Materials, Electricity, Fuel and Instruments as may be required or as may be reasonably needed by the Purchaser's representative to carry out the tests efficiently.

9.3 When the Stores have passed the specified test, the Purchaser's representative shall furnish a certificate to this effect in writing to the Contractor. The Contractor shall provide copies of Test Certificate to the Purchaser as may be required.

10.0 The Tenderer shall bear all cost towards preparation of tender document, Supply of Samples and arranging demonstration.

11.0 Mode of Despatch:

11.1 For Air Consignments:- Generally, Stores should be dispatched by Air Freight through Purchaser

nominated freight forwarder as per the delivery terms and mode of dispatch mentioned in the Purchase Order. A copy of the Invoice and Packing List should invariably be kept inside each of the package.

Port of Entry:- RAJIV GANDHI INTERNATIONAL AIRPORT, HYDERABAD.

11.2 For Sea Consignments:- The Stores should be dispatched by Ocean Freight by First Class Indian Flagged Vessel or Conference Vessel on freight collect basis as per the delivery terms and mode of dispatch mentioned in the Purchase Order. A copy of the Invoice and Packing List should invariably be kept inside each of the package. Port of Entry shall be 'CHENNAI'. The Port of Ultimate Destination shall be 'INLAND CONTAINER DEPOT [ICD, HYDERABAD]' . The Customs Clearance shall be arranged at ICD Hyderabad.

12.0 Ultimate Consignees:

Senior Purchase & Stores Officer [Stores], National Remote Sensing Centre, Hyderabad or otherwise mentioned in the tender.

13.0 Shipping Marks:

The marks on the shipping documents such as Invoice, Bill of Lading/Airway Bill and on the packages should be as follows:

PURCHASE ORDER NO.:

DATE:

GOVERNMENT OF INDIA, DEPARTMENT OF SPACE

..(name of the Centre/Unit)

.(address)

DESTINATION :

PORTOFENTRY Air freight to ./ Sea freight to

14.0 Demurrage:

Supplier shall bear demurrage charges if any, incurred by the Purchaser due to delayed presentation of shipping documents as prescribed in Para 4.3(f) to the Bankers within reasonable time (say within 7 days) from the date of Bill of Lading for Sea Consignments and within 3 days from the date of Air Way Bill for Air Consignments.

15.0 Insurance of the Stores:

No Insurance is required at our cost. The Supplier shall be responsible for Insuring the Stores wherever considered necessary. The Contractor shall however, be responsible for notifying to the Purchaser or the Insurer nominated by the Purchaser, the complete details of the proposed shipments including the value of each shipment and other relevant data immediately after shipment, to enable the Purchaser or the Insurers to arrange for the issuance of the Insurance Policy, if required. The necessity or otherwise of Insurance will be as indicated in the Purchase Order.

16.0 Acceptance of Stores:

(a) The Stores shall be tendered by the Contractor for Inspection at such places as may be specified by the Purchaser at the Contractor's own risk, expenses and cost.

(b) It is expressly agreed that the acceptance of the Stores contracted for is subject to final approval by the Purchaser, whose decision shall be final.

(c) If, in the opinion of the Purchaser, all or any of the Stores that do not meet the performance or quality requirements specified in the Purchaser Order, they may be either rejected or accepted at a price to be fixed by the Purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d) If the whole or any part of the Stores supplied are rejected in accordance with Clause No.16.0 above, the Purchaser shall be at liberty, with or without notice to the Contractor, to Purchase in the open market at the expense of the Contractor, Stores meeting the necessary performance and quality contracted for in place of those rejected, provided that either the Purchaser or the agreement to Purchase from another supplier is made six months from the date of rejection of the Stores as aforesaid.

17.0 Contractor[s] Default Liability:

17.1 The Purchaser may upon written notice of default to the Contractor, may terminate the Contract by giving 30 days prior notice in whole or in part in circumstances detailed hereunder:-

(a) If in the judgment of the Purchaser, the Contractor fails to make delivery of Stores within time specified in the Contract/Agreement or within the period for which extension has been granted by the Purchaser to Contractor.

(b) If in the judgment of the Purchaser, the Contractor fails to comply with any of the other provisions of this Contract.

17.2 In the event of Purchaser terminating the Contract in whole or in part thereof, as provided in Clause 17.1, the Purchaser reserves the right to Purchase, upon such terms and in a manner as he may deem appropriate, Stores similar to that terminated and the Contractor shall be liable to the

Purchaser for any additional cost for such similar Stores, and/or for Liquidated Damages for delays as defined in Clause 22.0 until such reasonable time as may be required for the final supply of Stores.

17.3 If Contract is terminated as provided in Clause 17.1 the Purchaser in addition to any other rights provided in this Article, may require the Contractor to transfer title and deliver to the Purchaser under any of the following cases in the manner and as directed by the Purchaser.

(a) Any completed Stores.

(b) Such partially completed Stores, drawing information and Contract right (here-in-after called manufacturing material) as the Contractor has specifically produced or acquired for the Contract as terminated. The Purchaser shall pay to the Contractor, the Contract price for completed Stores delivered to and accepted by the Purchaser and for manufacturing materials delivered and accepted.

17.4 In the event, the Purchaser does not terminate the Contract as provided in Clause 17.1, the Contractor shall continue the performance of the Contract, in which case he shall be liable to the Purchaser for Liquidated Damages for delay as set out in Clause 22.0 until the Stores are accepted.

18.0 Replacement:

If the Stores or any portion thereof, is damaged or lost during the transit, the Purchaser shall give notice to the Contractor setting forth particulars of such Stores damaged or lost during transit. The replacement of such Stores shall be effected by the Contractor within a reasonable time to avoid unnecessary delay in the intended usage of the Stores. The payment for the replacement of Stores shall be in accordance with the responsibilities as per INCOTERMS.

19.0 Rejection:

If the Stores supplied by the Contractor are found defective in material or workmanship or otherwise not in conformity with the requirements of the Contract specification, the Purchaser shall either reject the Stores or request the Contractor in writing to rectify the same. The Contractor, on receipt of such notification shall either rectify or replace the defective Stores free of cost to the Purchaser. If the Contractor fails to do so, the Purchaser may either: -

- (a) Replace or rectify such defective Stores and recover extra cost so involved from the Contractor or
- (b) Terminate the Contract for default as provided under Clause 17.0 above.
- (c) Acquire the defective Stores at a reduced price considered equitable under the circumstances.

The provision of this Article shall not prejudice the Purchasers rights under Clause 22.0.

20.0 Force Majeure:

20.1 Neither party shall bear responsibility complete or partial non performance of any of his obligations [except for failure to pay any sum which has become due on account of receipt of goods

under the provisions of the Purchase Order/Contract] if the non-performance results from such force majeure circumstances such as, but not restricted to, flood, fire, earthquake, civil commotion, sabotage, explosion, epidemic, quarantine restriction, strike, lock out, freight embargo, acts of the Government either in its sovereign or its contractual capacity, hostility, acts of public enemy and other acts of God as well as war or revolution, military operation, blockade, acts or actions of state authorities or any other circumstances beyond the control of the parties that have arisen after the conclusion of Purchase Order/Contract. In such circumstances, the time stipulated for the performance of an obligation under the Purchase Order/Contract may be proportionately extended.

20.2 The party for whom it has become impossible to meet the obligation under this contract due to force majeure condition will notify the other party in writing not later than 21 days from the date of commencement of unforeseeable event. Unless agreed by both the parties, in writing, the Contractor shall continue to perform his obligations under the Purchase Order/Contract as far as is practical and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

20.3 Any Certificate issued by the Chamber of Commerce or any other competent authority or organization of the respective country shall be sufficient proof of commencement and cessation of the above circumstances. In case of failure to carry out complete or partial performance of an obligation for more than 60 days, either party shall reserve the right to terminate the Contract totally or partially. A prior written notice of 30 days to the other party will be given informing of the intention to terminate without any liability.

21.0 Erection of Plant and Machinery:

Wherever erection of Plant or Machinery is the responsibility of the Contractor as per the terms of the Contract and in case the Contractor fails to carry out the erection as and when called upon to do so within the period specified by the Purchaser, the Purchaser shall have the right to get the erection done through any source of his choice. In such an event, the Contractor shall be liable to bear any additional expenditure that the Purchaser is liable to incur towards erection. The Contractor, shall, however, not be entitled to any gain due to such an action by the Purchaser.

22.0 Delay in Completion/Liquidated Damages:

If the Contractor fails to deliver the Stores within the time specified in the Contract or any extension thereof, the Purchaser shall recover from the Contractor as Liquidated Damages a sum one-half of one percent (0.5 percent) of the Contract price for each calendar week of delay or part thereof. The total Liquidated Damages shall not exceed Ten percent (10 percent) of the Contract price. Stores will be deemed to have been delivered only when all its component/parts are also delivered in full to make use of the whole system/equipment as the case may be. If certain components/parts are not delivered in time, the entire value of Contract/Stores will be considered as delayed until such time as the missing parts are delivered.

In case of delay in delivery of the Stores beyond the delivery date stipulated in the Purchase Order/Contract or any extension thereof, such Stores shall be received under protest. The Stores shall be accepted without prejudice to the terms and conditions of the Purchase Order/Contract.

23.0 Guarantee and Replacement:

- (a) The Contractor shall guarantee that the Stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.
- (b) Guarantee for the period as indicated in the tender documents shall be after acceptance of the Stores. If any defects are discovered, therein or any defects therein are found to have developed under proper use arising from faulty materials, design or workmanship, Contractor shall remedy such defects at his own cost provided, he is called upon to do so within a period of 14 months from the date of acceptance thereof, by the Purchaser who shall state in writing in what respect the Stores or any part thereof, are faulty.
- (c) If in the opinion of the Purchaser, it becomes necessary to replace or renew any defective Stores, such replacement or renewal shall be made by the Contractor free of all costs to the Purchaser, provided the notice informing the Contractor of the defect is given by the Purchaser in this regard within the said period of 14 months from the date of acceptance of Stores thereof.
- (d) If Contractor fail to rectify the defects, the Purchaser shall have right to reject or repair or replace, at the cost of the Contractor the whole or any portion of the defective Stores.
- (e) The decision of the Purchaser, notwithstanding any prior approval or acceptance or inspection thereof, on behalf of the Purchaser, as to whether or not the Stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or as to whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.
- (f) To fulfil guarantee conditions outlined in Clause 23.0 (a) to (h) above, the Contractor shall, at the option of the Purchaser, furnish a Bank Guarantee (as prescribed by the Purchaser - Bank Guarantee format) from a Nationalized/Scheduled Bank approved by the Purchaser for an amount equivalent to 10% of the value of the Contract within a reasonable time after the receipt of PO/Contract for the due performance of the Contract as well as the product delivered. On the performance and completion of the contract in all respects, the Performance Bank Guarantee will be returned to the Contractor without any interest.
- (g) All the replacement Stores shall also be guaranteed for a period of 12 months from the date arrival of Stores at Purchaser's site.
- (h) Even while the 12 months guarantee applies to all Stores in case where a greater period is called for by our specifications then such a specification shall apply, in such cases the period of 14 months referred to in Clause 23.0 (a) and (h) shall be the 'asked for' guarantee period plus two months.

24.0 Arbitration:

In the event of any dispute, disagreement, difference, claim or question relating to the interpretation and application of the Purchase Order/Contract, such dispute, disagreement, difference, claim or question shall be settled amicably by mutual consultations of the good Offices of the respective parties. If such a resolution is not possible, then the unresolved dispute, disagreement, difference, claim or question shall be referred by the Contractor in writing to Director, National Remote Sensing Centre, Hyderabad within 30 days after the receipt of final payment for appointment of Arbitrator in accordance with the rules and procedures of Indian Arbitration and Conciliation Act 1996 or any modification thereof. The decision of the Arbitrator shall be final and binding on both the parties. The expenses for the Arbitration shall be paid as may be determined by the Arbitrator. The Arbitration proceedings shall be conducted at National Remote Sensing Centre, Hyderabad

Pending the submission of and/or decision on a dispute,disagreement,difference,claim or question or until the Arbitral award is published; the Parties shall continue to perform all of their obligations under this Purchase Order/Contract without prejudice to a final adjustment in accordance with such award.

25.0 Arbitration with Overseas Supplier:

In the event of any dispute or difference arising out of or in connection with this Purchase Order/Contract, such dispute or difference shall be settled amicably by mutual consultants or through the good offices of the respective parties. If such resolution is not possible, then the unresolved dispute or difference shall be referred to the Sole Arbitrator appointed in accordance with provisions of the ICADR Arbitration Rules, 1996 of the International Center for Alternative Dispute Resolution, New Delhi. The Arbitration shall be conducted in India in accordance with the Rules & Procedures of the Arbitration and Conciliation Act of 1996 or any re-enactment or modification thereof. The decision of the Arbitrator shall be final and binding upon the parties and the expenses for the arbitration shall be paid as may be determined by the Arbitrator.

26.0 BANK CHARGES:

While the purchaser shall bear the bank charge payable to his Bankers (State Bank of India), the Contractor shall bear the Bank charges payable to his Bankers including the cheques towards advising amendment commissions.

27.0 Language and Measures:

All documents pertaining to the Contract including specification schedule notices, correspondence, operating and maintenance instruction drawings or any other writing shall be written in English language only. The metric system of measurement shall be used exclusively in the Contract.

28.0 Applicable Law:

The Contract shall be interpreted, construed and governed by the Laws of India.

29.0 Jurisdiction:

The Courts within Hyderabad will have the Jurisdiction to deal with and deciding any matter arising out of this Contract.

30.0 Indemnity:

The Contractor shall warrant and deemed to have warranted that all Stores/Services/Supplied/Rendered against this Contract/Purchase Order are free and clean of infringement of any Patent, Copy Right or Trademark and shall at all times indemnify the Purchaser against all claims which may be made in respect of the Stores for infringement of any right protected by Patent, Registration of the design or Trade mark and shall take all risk of accidents or damage which may cause a failure of the supply from whatever cause arising and the entire responsibility for the sufficiency of all the means used by him for the fulfilment of the Contract.

31.0 Counter Terms & Conditions:

Where counter terms and conditions printed or cyclostyled condition have been offered by the supplier, the same shall not be deemed to have been accepted by the Purchaser, unless specific written acceptance thereof, is obtained.

32.0 Security Interest:

On each item to be delivered under this Contract, including an item of work in progress in respect of which payment have been made in accordance with the Terms of the Contract. Purchaser shall have a Security Interest in such items which shall be deemed to be released only at the time when the applicable deliverable items is finally accepted and delivered to the Purchaser in accordance with the terms of Contract. Such Security Interest of the Purchaser shall constitute a prior charge as against any other charge or interest created in respect of such items by any other entity.

33.0 Bank Charges:

All Bank Charges Payable within India shall be borne by Purchaser. Similarly, all Bank Charges Payable outside India shall be borne by the Supplier.

34.0 Training:

The Contractor shall, if required by the Purchaser, provide facilities for the Practical Training of Purchaser's Engineering or Technical Personnel from India and for their active association on the manufacturing process throughout the manufacturing period of the Contract/Stores, number of such personnel to be mutually agreed upon.

35.0 Taxes:

(i) GST/IGST

a) Taxes shall be distinctly shown in the offer.

b) GST/IGST: Please mention GST only in percentage. (HSN/SAC code shall be indicated for each item and accordingly mention the GST Rate applicable as per prevailing guidelines).

36.0 Customs Duty:

National Remote Sensing Centre, Hyderabad is eligible for concessional rate of Customs Duty @ 5.5%, vide Notification No.51/96, Customs dated July 23, 1996 read with Notification No 43/2017 dated 30.06.2017 along with applicable rate of IGST (w.e.f 18.07.2022) and amended from time time. The necessary Customs Duty Exemption Certification [CDEC] shall be provided in case of Import Orders/ imported supplies/ High Sea Sales. In this connection, tenderer has to provide the following.

(i) Please indicate whether your rate is inclusive of this Customs duty @ 5.5% plus applicable rate of IGST or extra.

(ii) List of items with quantities which require customs duty exemption certificate to be provided.

Tenderers are requested to take note of this aspect and submit the Offer

Please note that in case of Two part tenders, only percentage should be mentioned. You should not indicate any amount/price details. If you are indicating price/amount details, such offers shall be summarily rejected.

37.0 Annual Maintenance Contract [AMC]/Extended Warranty:

Tenderers are requested to quote separately towards Annual Comprehensive Maintenance Service/Extended Warranty and Non-Comprehensive Maintenance besides attending to unlimited Break-Down calls wherever specification calls for after expiry of Standard Warranty.

38.0 Transparency:

Tenderers are free to ask Purchaser for the Bidding conditions, Process and/or Rejection of bids etc., during the procurement process.

39.0 Participation of Indian Agents:

In a Tender, either the Indian Agent on behalf of Principal/OEM or Principal/OEM itself can bid. But both cannot bid simultaneously for same item/product. If an Agent submit bid on behalf of Principal/OEM, the same Agent shall not submit a bid on behalf of another Principal/OEM in the same Tender for the same item/product.

40.0 Clarification regarding contents of the Bids:

During evaluation and comparison of bids, the Buyer may, at his discretion, ask the bidder for clarification on their bid.

The request for clarification will be given in writing and no change in prices or substance of the bid will be sought, offered or permitted. In case, tenderer fails to provide clarifications/confirmations within a specified time, the original bid submitted by the tenderer shall be treated as incomplete and liable for rejection. No post-bid clarification on the initiative of the bidder will be entertained.

41.0 Rejection of Bids:

Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection of Bids. Conditional Tenders will be rejected.

42.0 High Sea Sale: Tenderers submitting offer[s] against High Sea Sale Trade, the price of such offers be in Indian Rupees only and shall be inclusive of Freight and Clearance Charges for delivery up to National Remote Sensing Centre, Hyderabad. The offers shall be Firm, Fixed Price without any variation in Exchange Conversion Rate whatsoever. No Sales Tax will be applicable for High Sea Sale.

43.0 Splitting of Order[s]:

The Volume/Quantity for certain specialized nature of jobs is considerably large and it is necessary the orders are split with more than one party in order to ensure timely delivery/services. NRSC reserves right to split the Purchase Orders to more than one party. However, every effort will be made to bring the Commercial aspect including price of the parties on a single common platform. This is aimed at providing equal opportunity for the parties while taking the decision.

44.0 Agency Commission:

The amount of Commission included in the price and payable to the Indian Agent of the Contractor shall be paid directly to the Indian Agent[s] by the Purchaser in equivalent Indian Rupees on the basis of an Invoice from the Indian Agent by applying T.T. buying rate of exchange ruling on the date of placement of the Purchase Order/Contract and within 30 days from the date of receipt and acceptance of the Stores. The Contractor shall Invoice only for the net amount payable to him, after deducting the amount of Agency Commission included in the Invoice which would be paid to the Indian Agent[s] directly by the Purchaser. However, the Contractor[s] quote should separately reflect the amount of Commission payable to his Indian Agent.

As per the Compulsory Enlistment Scheme of the Department of Expenditure, Ministry of Finance, it is compulsory for Indian Agents who desired to quote directly on behalf of their Foreign Principals to get themselves enlisted with the Central Purchase Organization [Eg: DGS&D]

45.0 Validity of Offer:

The minimum validity of the tender submitted against Single Part shall be 120 days from the date of opening of the tender. In case of Two Part tender, the tender should be valid for a period of 180 days after opening of Part-I (Technical bid).

46.0 The Authority of person signing the Tender, if called for shall be produced.

47.0 Instruction/Operation Manual containing all assembly details including wiring diagrams should be sent wherever necessary in duplicate. All documents/correspondence should be in English language only.

48.0 The Purchaser reserves the right to accept or reject any offer in whole or in part by recording the reasons.

49.0 It is expressly agreed that the acceptance of the Stores contracted for is subject to final approval in writing by the Purchaser.

50.0 Permitted Number of Shipment [ONE] only. Any additional is shipment will be at suppliers cost.

Part shipment is not allowed unless specifically agreed to by us.

51.0 Inspection/Test/Certificate should be provided for the goods after testing it thoroughly at the Contractors works. If any inspection by Lloyds or any other Testing Agency is considered necessary, it shall be arranged by Contractors on the instructions of the Purchaser.

52.0 Where Erection, Assembly or Commissioning is a part of the Contract, it should be done immediately on notification. The Contractor shall be responsible for any loss/damages sustained due to delay in fulfilling this responsibility.

53.0 For items having Shelf Life, the same shall be supplied with maximum Shelf Life if order is placed.

54.0 Buy-Back Offer:

Wherever Contract considered necessary, the quotation shall be given separately with Buy-Back Offer and also without Buy-Back Offer so as to enable Purchaser either to Trade or not to Trade the item while purchasing the new one.

55.0 Change in the Name and Address of the Supplier:

In the event of Change in Name and Address of Supplier, Documentary Proof issued by the Appropriate Government Authorities shall be produced for such change.

56.0 Risk Purchase:

Risk Purchase Clause will be applicable wherever considered necessary.

57.0 Fall Clause:

The price[s] charged for the Stores/Services supplied under the Contract by the Contractor shall be no event exceed the lowest price at which the Contractor sells the Stores/Services or offer to sell the Stores of identical description to any person[s], Firm, Party, Organisation[s] including the Purchaser or any Department of Central Government or any Department of State Government or any statutory undertaking of the Central/State Government as the case may be during the period till the performance of all supply orders placed during the currency of the Rate Contract is completed.

If at any time during the said period, the Contractor reduces the sale price, sells or offers to sell such Stores/Services to any person[s], Organisation[s], including the Purchaser or any Department of

Central Government or any Department of State Government or any statutory undertaking of the Central or a State Government as the case may be, at a price lower than the price chargeable under the Contract, he shall forthwith notify such reduction or sale of offer to the Purchaser and the price payable under the Contract for the Stores/Services supplied after the date of coming into force of such reduction or sale or offer of sale stand correspondingly reduced.

58.0 Conditional Discount/Offer:

Conditional Discounts/Offer will not be considered.

59.0 Free Supply of Public Tender Documents:

One set of tender documents, can be supplied free of cost to Government Departments, Public Sector Undertakings [both Central and State]. Tender documents, can also be supplied free of cost to Foreign sources.

60.0 Termination:

Under the normal circumstances, Termination/Short Closing of the PO/Contract is not foreseen. However in case of repeated non performance of the PO/Contract, NRSC reserves the right to terminate the Contract in whole or in part by giving 30 days prior notice under the following circumstances:

[i] For repeated non-performance in the execution of P.O/Contract.

[ii] If the Contractor fails to deliver the final Product within the stipulated delivery schedule or any extension thereof, granted by the Purchaser.

[iii] If the final Product does not pass inspection and quality requirements of P.O/Contract

[iv] If the Contractor fails to perform any other obligations under P.O/Contract.

[v] If the Contractor becomes bankrupt or otherwise insolvent.

[vi] Owing to deficiency of service, breach of Contract.

[vii] For inefficiency, indiscipline, irregularity, insincerity, indifference in work, disobedience, doubtful credentials/integrity, etc., at any point of time during the Contract period.

[viii] To terminate the PO/Contract at any time by giving 30 days prior notice.

61.0 Parallel Contract:

NRSC reserves the right to enter into Parallel Contract/s with one or more Contractors.

62.0 Security Deposit:

(i) In Case of submission of BG by Indian Agent on behalf of Foreign Supplier:

10% value of the order shall be deposited by Indian Agent on behalf of Foreign Supplier with NRSC within 15 days from the date of receipt of Purchase Order towards Security Deposit in the form of Bank Guarantee on Rs.100/- non-judicial stamp paper (as per format given by NRSC- Specimen copy enclosed as Appendix-I) from a Nationalised / Scheduled Bank towards performance of the Contract valid till completion of the contract period plus sixty days. This will be returned by NRSC on execution of the order satisfactorily as per order terms upon request received from the supplier. If the supplier fails to execute the order, then the SD shall be forfeited without any further reference.

NOTE : (ii) In case of submission of BG by Foreign suppliers, the BG shall be submitted from First class international reputed bank.

In case the vendor fails to furnish the Security Deposit within 15 days after the receipt of PO or on signing of the Contract or any extension thereof, NRSC reserves the right to terminate or cancel the Purchase Order/ Contract and the EMD if any executed shall be forfeited apart from initiating appropriate penal action .

The Security Deposit will not carry any interest and shall be returned after completion of all the obligations of the Contract.

SD ISNOT REQUIRED, IF THE LANDED COST IS BELOW Rs.5 LAKHS.

63.0 Performance Bank Guarantee [PBG]:

(i) In Case of submission of BG by Indian Agent on behalf of Foreign Supplier:

10% of the total order value shall be submitted by Indian Agent on behalf of Foreign Supplier as PBG in the form of Bank Guarantee on Rs.100/- non-judicial stamp paper (as per format given by NRSC- Specimen copy enclosed as Appendix-II) from a Nationalized / Scheduled Bank at the time of supply valid till the completion of warranty period plus 60 days. The same will be released to the supplier after satisfactory completion of warranty period upon request received from the supplier. If the supplier fails to execute the warranty obligations, then the PBG shall be forfeited without any further reference.

NOTE : (ii) In case of submission of BG by Foreign suppliers, the BG shall be submitted from First class international reputed bank in the form of Bank Guarantee (as per format given by NRSC-

Specimen copy enclosed as Appendix-III)

OR

10% of the order value shall be withheld till the completion of warranty period and the same will be released to the supplier after satisfactory completion of warranty period based on your request. No interest is payable/allowed. If the supplier fails to execute the warranty obligations, then this amount shall be forfeited without any further reference.

63.1 COMBINED BANK GUARANTEE (SD Cum PBG) :

In case, if parties are unable to provide two separate BGs, i.e., one for SD & one for PBG, they can submit a combined BG for SD & PBG for 10% of the Order value valid till the completion of total contractual obligation (i.e., Supply period + warranty period + 60 days) within 15 days from the date of receipt of Purchase Order in the form of Bank Guarantee on Rs.100/- non-judicial stamp paper from a Nationalised / Scheduled Bank (as per format given by NRSC-Specimen copy enclosed as Appendix-IV).

This will be returned by NRSC on execution of the purchase order satisfactorily as per order terms upon request received from the supplier. If the supplier fails to execute the order, then this BG shall be forfeited without any further reference.

63.2 Bank Guarantee towards Free Issue Materials (FIM), IF APPLICABLE:

The successful Tenderers shall furnish Bank Guarantee (BG) towards the cost of Free Issue Materials issued by Purchaser towards adequate Security for the FIM for the execution of the Contract. The BG is to be kept valid till supply and acceptance of the final product. BG towards FIM format is enclosed as Appendix-V

For Fabrication of items, the Supplier should quote the rates considering the Scrap Materials generated and taken over by Supplier.

64.0 Subletting Contract: The Contract shall not be sublet, transferred or assigned to any other firm/agencies/person, etc., without the prior written permission of NRSC. In case of violation of this clause, the Service Provider/Contractor shall be solely responsible for any legal action besides termination of Contract.

65.0 Secrecy: The technical information, drawings, specifications and other related documents provided by the Purchaser and forming part of the Contract are the property of Purchaser and shall not be used for any other purpose, except for execution of the Contract. All rights, including rights in the event of grant of patent and registration of designs are reserved. The technical information, drawings, specifications, records and other documents provided by the Purchaser shall not be copied, transcribed, traced or reproduced in any other form or otherwise in whole and/ or duplicated, modified, divulged and/or disclosed to a third party nor misused in any other form whatsoever without Purchaser's consent in writing except to the extent required for the execution of this Contract. These technical information, drawings, specifications and other related documents which were originally provided by the Purchaser shall be returned to the Purchaser with all approved copies and duplicates,

if any, immediately after they have been used for the agreed purpose.

66.0 Limitation of Liability:

66.1 The remedies stated in this Contract are exclusive and in no event shall the Contractor be liable for any, special, incidental, consequential or punitive damages of any nature. Notwithstanding any other provision of this contract, the Contractor's total liability to the Purchaser, whether in Contract shall not exceed the total amount paid to the Contractor under this Contract.

66.2 The Purchaser shall be under no obligations to accept the lowest or any tender and reserve the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the Tenderer[s] shall supply the same at the rates quoted.

66.3 The Tenderer shall bear all cost towards preparation of tender.

Bid from vendors that share land border with India :

Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs) as per Ministry of Finance Order No.: F. No. 6/18/2019-PPD Dated 23rd July, 2020 & OM no. F. No. 18/37/2020-PPD Dated 08th February, 2021.

I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.

II. Bidder (including the term tenderer, consultant or service provider in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated here in before, including any agency branch or office controlled by such person, participating in a procurement process.

III. Bidder from a country which shares a land border with India for the purpose of this Order means:

a. An entity incorporated, established or registered in such a country; or

b. A subsidiary of an entity incorporated, established or registered in such a country; or

c. An entity substantially controlled through entities incorporated, established or registered in such a country; or

d. An entity whose beneficial owner is situated in such a country; or

e. An Indian (or other) agent of such an entity; or

f. A natural person who is a citizen of such a country; or

g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

IV. In case of Work contracts, including turnkey contracts, contractors shall not be allowed to sub-contract works to any contractors shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India:

i) A bidder is permitted to procure raw material, components, sub-assemblies etc. from the vendors from countries which shares a land border with India. Such vendors will not be required to be registered with the Competent Authority, as it is not regarded as sub-contracting.

ii) However, in case a bidder has proposed to supply finished goods procured directly/ indirectly from the vendors from the countries sharing land border with India, such vendor will be required to be registered with the Competent Authority. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

Guidelines on Debarment of firms from Bidding:

Vendors may note the Guidelines on Debarment of firms vide O.M No. F.1/20/2018-PPD dated 02.11.2021 issued by Department of Expenditure in line with rule no.151&175(code of Integrity) of GFR(General Financial Rules). On submission of bids, it is presumed that bidders have read and understood the Debarment guidelines.

NOTE: Any amendment/modifications issued by Govt. of India from time to time w.r.t to above OM's shall also be complied in addition to the guidelines.

2. Appendix for Tender Terms & Conditions for indigenous stores

1. Appendix-III

PROFORMA FOR
PERFORMANCE BANK GUARANTEE
(from indigenous suppliers)
(On non-judicial stamp paper of appropriate value)

1.WHEREAS on or about the _____ (day, month & year), M/s.
_____. (name & address of the firm), a company
registered under Companies Act and having its registered office at
_____.(hereinafter referred to as 'The Contractor'), entered into an
agreement bearing No. _____ dated _____. (hereinafter referred to as
'The Contract') with the President of India (hereinafter referred to as 'The Government') for supply of
_____. (hereinafter referred to as 'The Equipment').

2.AND WHEREAS under the terms and conditions of the Contract, an amount of _____ (Rupees
_____ only) representing balance
_____ % payment out of the total value of the Contract of (Rupees
_____ only) is to be paid to the Contractor on the final acceptance of the
equipment and on the Contractor furnishing a bank guarantee in a manner herein contained towards

satisfactory performance of the equipment during warranty period, viz., _____.. months from the date of acceptance/commissioning of the said equipment or _____ . months from the date of despatch of the last lot of consignment, whichever is earlier (specify here the warranty clause contained in the Order).

3. NOW WE, _____.. (name & address of the Bank), in consideration of the promises and the payment of said sum of _____ (Rupees _____ only) by the Government to the Contractor do Hereby agree and undertake to pay to the Accounts Officer, _____ . (name & address of the Centre/Unit) on behalf of the Government (hereinafter referred as the Accounts Officer) the amount due and payable under the guarantee without any demur, merely on a demand from the said Accounts Officer stating that the amount claimed is due by way of loss or damage caused to or suffered by the Government by reason of unsatisfactory performance of the equipment during the warranty period. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding _____.(Rupees _____ only).

4. WE, _____.. (Bank) undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the Contractor, in any suit or proceedings pending before any Court of Law or Tribunal relating thereto, our liability under this present guarantee bond being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.

5. WE, _____ (Bank) hereby further agree that the decision of the said Accounts Officer as to whether the said equipment is giving satisfactory performance or not during the warranty period and as to the amount of damages suffered by the Government on account of unsatisfactory performance of the said equipment shall be final and binding onus.

6. AND WE, the _____ (Bank) do hereby agree that our liability hereunder shall not be discharged by virtue of any agreement between the Government and the Contractor whether with or without our knowledge and/or consent or by reason of the Government showing any indulgence or forbearance to the Contractor whether as to payment, time or performance, or any other matter whatsoever relating to the Contract which, but for this provision, would amount to discharge of the surety under the law.

7. THIS GUARANTEE will not be discharged due to the change in the constitution of the Bank or Contractor.

8. OUR GUARANTEE shall remain in force until _____.. (two months beyond the Contract warranty period) and unless a claim under the guarantee is lodged with us on or before the above date, all right of the Government under the guarantee shall be forfeited and we shall be relieved and

discharged from all our liabilities thereunder.

Dated the _____ (day, month & year)

(Signature of the Authorised Officer of the Bank)

(Name and designation of the officer) Seal

Name, Address of the Bank (Head Office) with Phone/Fax Nos.

Name & Address of the Branch with Phone/Fax Nos.

2. Appendix-II

PROFORMA FOR INDEMNITY BOND FOR SECURITY DEPOSIT (from CPSUs, etc.)

(On non-judicial stamp paper of appropriate value)

THIS deed of Indemnity made on this the _____ (day, month & year) between the President of India (hereinafter called the Purchaser) acting through the Director,

(name & address of the Centre) of the first part and M/s _____ (name & address of the firm), a firm registered under the Companies Act and having its Registered Office at _____ . (hereinafter called the Contractor) of the second part.

WHEREAS the Purchaser has placed an Order bearing No.

dated _____ on the Contractor for the supply of _____ at total price of _____ (Rupees .. only) on the terms and conditions mentioned in the said Order.

AND WHEREAS the Contractor as per the terms and conditions of the Order aforesaid has to

execute an Indemnity Bond for an amount equal to _____% of the price payable as per Order, that is, _____(Rupees .. only) and furnish the same to the Purchaser along with the acceptance for executing the aforesaid Order within _____ months from the date of Order.

NOW this deed witnesses that in pursuance of the said Order, the Contractor hereby agrees to indemnify the Purchaser and at all times to hold himself liable for all the losses or damages caused to or suffered or would be caused to or suffered by the Purchaser by reason of any breach by the said Contractor of the terms and conditions of the order aforesaid or from whatever causes or losses, interest, charges and incurred by the said Purchaser on account of the non-delivery of the supplies or full execution of the order aforesaid;

It is in terms of the said Order and this Deed of Indemnity that if the Contractor fails to supply the item ordered within the delivery period stipulated in the Order, it is hereby agreed that, the Contractor shall be liable to pay

(Rupees .. only) being the value of this Indemnity Bond without any demur to the Accounts Officer, (name of the Centre/Unit), on receipt of a demand for the same in writing.

It is agreed by the Contractor, in terms of this Indemnity Bond, that the decision of the Director, . (name & address of the Centre/Unit), in case of any dispute, will be binding on the Contractor.

This Bond and the trust hereby created shall remain valid and binding on the Contractor for a period of _____ months from the date of signing this Bond or till the date of completion of supply, whichever is earlier. The Purchaser reserves the right to further extend the period of the Bond till the order is executed to supply the item, under the terms and conditions of the aforesaid Order.

It has been mutually agreed that the stamp duty on this deed of Indemnity Bond shall be borne by the Contractor.

In witness whereof the parties hereunto have set their hands to this Deed on the day and year herein abovementioned.

For and on behalf of the CONTRACTOR

Name and designation & seal

WitnessNo.1:

WitnessNo.2:

For and on behalf of the PURCHASER

Name and designation & seal

WitnessNo.1:

WitnessNo.2:

Name and designation of Authorized Attorney with seal

3. Appendix-I

PROFORMA FOR
BANK GUARANTEE FOR SECURITY DEPOSIT
(from indigenous suppliers)
(On non-judicial stamp paper of appropriate value)

WHEREAS on the day of _____

M/s. _____ having registered office at
_____ (hereinafter called The Contractor)

entered

into a Contract No _____ dated (hereinafter

referred to as the Contract) with the President of India acting through the

_____ (hereinafter to as The

Government) for the

supply of _____.

And whereas under the terms and conditions of the Contract, an amount of _____/- (Rupees
_____ only) towards Security Deposit in the form of a Bank Guarantee
is to be furnished by the Contractor to the Government, for due performance of the Contract/Order. In

the event of non-execution of the Contract/Order by the Contractor, in line with the Contract/Order terms, the Security Deposit shall be forfeited by the Contractor.

Now, we the _____.. (Bank) hereby agree and undertake to pay on demand and without any demur to the Accounts Officer, _____(name of Centre/Unit), on behalf of the Government (hereinafter referred as the Accounts Officer), a sum not exceeding . _____.. /- (Rupees _____.. only) on unsatisfactory performance of the Contract by the Contractor.

And we hereby further agree that the decision of the Accounts Officer as to whether the Contractor has committed any breach of any terms and conditions of the Contract or not and as to the amount of damages by the said Accounts Officer, as damage or loss suffered by the Government on account of such breach, would be final and binding on us (the Bank).

And, we _____ (the Bank) hereby agree that our liability hereinunder shall not be discharged by virtue of any agreement between the Government and the Contractor whether with or without our knowledge and/or consent or by reason of the Government showing any indulgence or forbearance to the Contractor whether as to payment, time, performance or any other matter whatsoever relating to the Contract which, but for this provision, would amount to discharge of the surety under the law.

Our Guarantee shall remain in force until (six months from the date of issue) or until completion of the Contract and unless a claim under the guarantee is lodged with us within six months from the date of expiry of this Guarantee, all rights of the Government under the guarantee shall be forfeited and we shall be relieved and discharged from all our liabilities hereunder.

Place: _____

Date: _____.

(Signature of the Authorised Officer of the Bank)

(Name and designation of the officer)

Seal

Name, Address of the Bank (Head Office) with Phone/Fax Nos.

Name & Address of the Branch with Phone/Fax Nos.

4. Appendix-IV

PROFORMA FOR
INDEMNITY BOND FOR PERFORMANCE GUARANTEE
(from CPSUs, etc.)
(On non-judicial stamp paper of appropriate value)

THIS deed of Indemnity made on this the _____ (day,
month & year) between the President of India (hereinafter called the Purchaser
) acting through the Director,
(name & address of the Centre) of the first part and M/s
_____. (name &
address of the firm), a firm registered under the Companies Act and having its Registered Office
at _____ (hereinafter called the Contractor) of the second part.

WHEREAS the Purchaser has placed an Order bearing No.

dated _____ . on the Contractor for the supply of
at total price of _____ (Rupees
.. only) on the terms and
conditions mentioned in the said Order.

AND WHEREAS under the terms and conditions of the Order aforesaid, an amount of
(Rupees
.. only) representing
the balance _____ % of payment out of the total value of Order aforesaid, viz.,
(Rupees

.. only), is to be paid by the Purchaser to the Contractor on final acceptance of the equipment and on the Contractor furnishing an Indemnity Bond for an amount of _____ (Rupees _____ .. only) towards satisfactory performance of the equipment during the warranty period, viz., _____ months from the date of acceptance/commissioning of the said equipment, or _____ months from the date of despatch of the last lot of the consignment, whichever is earlier (specify the warranty clause included in the Order).

NOW this Deed witnesses that in pursuance of the Order aforesaid, the Contractor hereby agrees to indemnify the Purchaser and at all times to hold himself liable for any loss or damage caused to or suffered by the Purchaser by reason of unsatisfactory performance of the equipment during the warranty period afore mentioned.

It is in terms of the Order aforesaid and this Deed of Indemnity that if the equipment supplied by the Contractor in fulfillment of the Order aforesaid performs unsatisfactorily, it is hereby agreed that the Contractor shall be liable for the payment of an amount of _____ (Rupees _____ only)

to the Purchaser without any demur to the Accounts Officer, _____ (name of the Centre/Unit), on receipt of a demand for the same in writing.

It is agreed by the Contractor, in terms of this Indemnity Bond, that the decision of the Director, _____ (name & address of the Centre/Unit), in case of any dispute, will be binding on the Contractor.

This Bond and the trust hereby created shall remain valid and binding on the Contractor for a period of _____ months from the date of signing this Bond or till the satisfactory completion of the warranty period aforementioned, whichever is earlier. The Purchaser reserves the right to further extend the period of the Bond as may be decided by him, under the terms and conditions of the aforesaid Order.

It has been mutually agreed that the stamp duty on this Deed of Indemnity shall be borne by the Contractor.

In witness whereof the parties hereunto have set their hands to this Deed on the day and year herein abovementioned.

For and on behalf of the CONTRACTOR

Name and designation & seal

Witness No.1:

WitnessNo.2:

For and on behalf of the PURCHASER

Name and designation & seal

WitnessNo.1:

WitnessNo.2:

Name and designation of Authorized Attorney with seal

5. Appendix-VII

PROFORMA FOR
INDEMNITY BOND FOR FREE ISSUE MATERIAL
(from CPSUs, etc.)
(On non-judicial stamp paper of appropriate value)

THIS deed of Indemnity made on the _____.(date, month & year)
between the President of India (hereinafter called the "Purchaser") acting through
the Director,

(name & address of the Centre/Unit), on the first part and M/S.

.. (name & address of the
e firm), a firm registered under the Companies Act and having its Registered Office at
.. (herein after called
the "Contractor") on the second part.

WHEREAS the Purchaser has placed an Order bearing No

.. dated

. on the

Contractor for the supply of

_____ (name of the item and quantity), on the terms and conditions as

mentioned in the said order and which have been mutually agreed upon by the parties thereto, and in consideration of the said Contract.

WHEREAS the Contractor has agreed to execute an Indemnity Bond for the safe custody of free issue materials of value _____(Rupees _____ only) (as per enclosed list) to be supplied free of cost to the Contractor by the Purchaser (hereinafter referred to as materials) till the materials are used for the fabrication of the said stores and delivered to the Purchaser along with the balance materials and scrap as per the terms and conditions of the Contract.

NOW this deed witnesses that in pursuance of the said agreement and in the premises, the Contractor agrees to indemnify the Purchaser and at all times to hold himself liable for all the damages, loss due to pilferage, fire or negligence on the part of the Contractor's employees or from whatever cause with all loss, interest, charges and expenses, incurred by the said Purchaser on account of the cost of the material kept in safe custody of the Contractor.

It is in terms of the said Contract and this deed of Indemnity that the materials are issued to the Contractor for the safe custody, therefore shall be deemed to be the property of the Purchaser.

It is hereby agreed that the Contractor shall be liable for all injury, losses and damage that may be caused to the materials from whatsoever cause and further that the Contractor shall not part with or deliver possession of the same materials to any other party or person save in compliance with and in performance of and in terms of the provision of the Contract, in respect of which

this Indemnity Bond has been executed, the Contractor having undertaken to deliver the said stores with balance materials and scrap complete in all respects in compliance with the terms of the Contract.

It is in terms of the said Contract and this deed of Indemnity Bond that the Contractor will bear the cost of maintenance, repair and preservation of the materials supplied by the Purchaser.

It is agreed by the Contractor, in terms of this Indemnity Bond, that the decision of the Director, _____(name & address of the Centre/Unit)in case of any dispute will be binding on the Contractor.

The Government further reserves the right in terms of this Indemnity Bond to take the materials supplied back from the Contractor without any reason whatsoever.

This Bond and the trust hereby created shall remain valid and binding on the Contractor for a period of .. months/years from the date of signing this bond till the order is executed to supply the item so developed under the terms of Contract agreement.

It has been mutually agreed that the stamp duty on this deed of Indemnity Bond shall be paid by the Contractor.

In witness where of the parties hereunto have set their hands to this deed on the day and year herein above mentioned.

For and on behalf of the CONTRACTOR

WitnessNo.1:

WitnessNo.2:

Name and designation & seal

WitnessNo.1:

WitnessNo.2:

For and on behalf of the PURCHASER Name and designation & seal

Name and designation of Authorized
Attorney with Seal

6. Appendix-VI

PROFORMA FOR
BANK GUARANTEE FOR FREE ISSUE MATERIAL
(On non-judicial stamp paper of appropriate value)

WHEREAS on the

.. (day, month & year),M/s.

. having their Registered Office at

_____ (hereinafter referred to as "The Supplier"),

entered into a Contract bearing No.

(hereinafter referred to as The Contract) with the President of India (hereinafter referred to as "The Government") for the supply of

AND WHEREAS under the terms and conditions of the Contract, payments are to be made by the Government to the Supplier as mentioned in the Contract.

AND WHEREAS the Government has agreed in pursuance of the said terms and conditions of the Contract to supply materials to the supplier on the furnishing of a Bank Guarantee in the manner herein contained.

Now WE,

_____ (Bank) in consideration of the Government having agreed to supply the materials to the supplier equal to

(Rupees

.. only) hereby

agree and undertake to indemnify the Government and keep the Government indemnified to the extent of a sum not exceeding the paid sum of _____ (Rupees only) against any damage or loss that may be suffered by the Government by reason of non-fulfillment of any of the terms and conditions of the Contract by the Supplier.

AND WE, _____ (Bank) hereby undertake to pay on demand and without demur to the Accounts Officer of the

_____ (name & address of the Centre/Unit), on behalf of the Government (hereby referred to as "The Accounts Officer"), a sum not exceeding _____ (Rupees

_____ only) as may be ascertained by the said Accounts Officer as damage or loss that the Government might have suffered by reason of the non-fulfillment of any of the terms and conditions of the Contract by the Supplier. AND WE _____ (bank)

hereby further agree that the decision of the said Accounts Officer as to whether the supplier has committed breach of any such terms and conditions of the Contract or not and as to the amount of damage or loss, or loss assessed by the said Accounts Officer as damage or loss suffered by the Government on account of such breach, would be final and binding on us (the Bank).

AND WE, _____ . (Bank), hereby agree that our
(Bank's) liability hereunder shall not be discharged by virtue of any arrangement
between the Government and the supplier whether with or without our knowledge and/or consent or by
reason of the Government showing any indulgence or forbearance to the supplier whether as to
payment, time performance or any other matter whatsoever which, but for this provision, would amount
to discharge of the surety under the law.

The Guarantee shall remain in force until
_____ .or until the delivery of the Contracted stores and unless a claim under the guarantee
is lodged with us (Bank) within six months from the date of expiry of this guarantee, viz
_____, all rights of the
Government under the guarantee shall be forfeited and we (Bank) shall be relieved and discharged
from all liabilities hereunder.

(Signature of the Authorised Officer of the Bank)

(Name and designation of the officer) Seal Name, Address of the Bank (Head Office) with Phone/Fax Nos. Name & Address of the Branch with Phone/Fax Nos.

7. Appendix-V
PROFORMA FOR
COMBINED BG TOWARDS SD CUM PBG
(from indigenous suppliers)
(On non-judicial stamp paper of appropriate value)

1. In consideration of the President of India (hereinafter called the Government) having agreed to
exempt----- (hereinafter called the said contractor(s)) from the demand

under the terms and conditions of an agreement dated-----made between -----
-----and -----for -----(hereafter called said
agreement), of security deposit of the due fulfillment by the said contractor (s) of the terms and
conditions contained in the said Agreement, on (Rupees-----Only)

We,------(here in after)referred (indicate the mane of the bank)to as
the Bank at the request of -----[contractor (s)] do hereby
undertake to pay to the Government an amount not exceeding. Rs.-----against any loss or
damage caused to or suffered or would be caused to or suffered by the Government by the reason of
any breach by the said Contractor (s) of any of the terms or conditions contained in the said
Agreement.

2. We------(indicate the name of the bank) do hereby undertake to pay the
amounts due and payable under this guarantee without any demur, merely on a demand from the
Government stating that the amount claimed is due by way of loss or damage caused to or would be
caused to or suffered by the Government by reason of breach by the said contractor(s) of any of the
terms of conditions contained in the said Agreement or by reason of the contractor(s) failure to perform
the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount
amount due and payable by the Bank under this guarantee. However, our liability under this guarantee.
However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.-----
-----.

3. We undertake to pay to the Government any money so demand notwithstanding any dispute or
disputes raised by the contractor (s)/supplier (s)in any suit or proceeding pending before any Court or
Tribunal relating thereto our liability under this present being absolute and unequivocal.
The payment so made by us under this bond shall be a valid discharge of our liability for payment there
under and the contractor (s)/supplier (s) shall have no claim against us for making such payment.

4. We ------(indicate the name of bank) further agree that the
guarantee contained shall remain in full force and effect during the period that would be taken for the
performance of the said Agreement and that it shall continue to be enforceable till all the dues of the
Government under or by virtue of the said Agreement have been fully paid and its claims satisfied or
discharge3d or till-----office/Department/Ministry of -----
-----certifies that the terms and conditions of the said Agreement have been fully and
properly carried out by the said contractors(s) and accordingly discharges this guarantee. Unless a
demand or claim under this guarantee is made on us in writing on or before the -----
-----we shall be discharged from all liability under this guarantee thereafter.

5. We------(indicate the name of bank) further agree with the
Government that the Government shall have the fullest liberty without out consent and without affecting
in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement
or to extend time of performance by the said contractor (s) from time to time or to postpone for any
time of from time to time any of the powers exercisable by the Government against the said

Contractor(s) and 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 such variation, or omission on the part of the such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee shall be treated as bank guarantee towards warranty after the acceptance of items and fulfillment of all obligations other than warranty as per DOS purchase order.

7. In accordance with the terms of said contract the contractor has undertaken to produce a bank guarantee for Rs.----- (Rupees -----only) being -----% of the total value of the said stores supplied to you, for the due fulfilment of its obligations to the president of India for due performance as per the contract during warranty period .

8. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor (s)/Supplier(s).

9. We----- (indicate the name of bank) lastly undertake not to revoke this guarantee during its currency except with previous consent of the Government in writing.

10. Notwithstanding anything herein contained, out liability under this guarantee is restricted to Rs.--- (Rupees-----only) and the guarantee shall remain in force up to and including the -----day of being reported to us by you and returned to us duly discharged.

11. Unless a demand or claim under this guarantee is made on us in writing on or before the aforesaid expiry date as provided above or unless this guarantee is extended by us all your rights under this guarantee shall be prescribed and we be discharged from the liabilities hereunder.

12. This guarantee shall not be affected by any changed in the constitution of our Bank or of the contractor or for any other reason whatsoever.

13. Dated the -----day of ----- for ----- (indicate the name of the Bank).

Name of the Bank:-

Phone No:-

Fax No:-

3. Tender Terms & Conditions for indigenous stores

1. INSTRUCTIONS TO TENDERERS

1.1 National Remote Sensing Centre [NRSC] has implemented e-tender system for ONLINE tenders. NRSC invites offers through e-tender portal <https://eproc.isro.gov.in> for the supply of Stores/Services. The suppliers need to get enrolled in the e-tender portal to access tender and submit their offer online. Vendors need to have Digital Signature Certificate as detailed on our e-portal and corporate e-mail ID to register on the above portal. Only online tenders will be accepted. MANUAL/POSTAL/COURIER/E-MAIL/FAX OFFERS WILL NOT BE CONSIDERED.

1.2 Interested tenderers may login to <https://eproc.isro.gov.in> and submit their offers through Online only.

1.3 The Vendors are requested to submit the Bids online at least two days prior to closing date to avoid last minute computer network related problems. Request for the extension of the due date will not be considered.

1.4 All the Vendors should regularly browse the e-mail being sent from e-procurement portal for initiating appropriate action or for any updates on the Tender.

1.5 All enquiries regarding the tenders and submission of offers shall be online and only through our eProcurement portal. Vendors may approach help desk e-mail id and phone number given on the home page for any technical help.

1.6 In case bidder encounters any technical snag pertaining to e-procurement system while acting on the tender, computer screen shot of the error message with date & time stamp on the web-browser along with the query shall be e-mailed by the bidder to the help desk (as mentioned above) for problem resolution well in advance before the due date and time of the tender. NRSC is not responsible for any delay in resolving the technical snag, which has not communicated to our help desk in writing along with the screen shots within the due date and time of bid submission.

1.7 NRSC shall not be responsible for failure of vendors in submitting bids online caused due to

technical reasons at vendor end such as network or power failures, computer failure, internet-browser, mistakes / errors in filling the bids on line by vendor etc.

1.8 The Server Date & Time as appearing on our website <https://eproc.isro.gov.in> shall only be considered for the cut-off date and time for receipt of tenders.

1.9 Please note that unsolicited clarifications / changes / modifications sought by the vendors after submitting their bids will not be considered.

1.10 No Tender fee shall be payable for submission of tender through e-procurement.

1.11 Quote should be submitted in Single Part/Two Part as specified in the Tender Enquiry.

1.12 Our Tender Enquiry contains technical requirements and specification. The detailed technical specification along with Commercial Terms and Conditions of your offer should be covered in Technical Bid i.e. Part-1 [Techno-Commercial] and Part -2 [Price Bid].

1.13 In the case of Two Part Tender, Price details should NOT be disclosed in the Part-1 [Techno-Commercial Bid] and in any other attachments enclosed in the Technical Bid. IN CASE, PRICE DETAILS ARE MENTIONED IN THE PART-I, THE OFFERS OF THE SAME WILL BE SUMMARILY REJECTED. The Technical documents need to be attached online as a single PDF file without any price information. Prices are required to be quoted according to the units indicated, in the Part-2 [Price Bid] only.

1.14 In case of Two Part Tender, Commercial Terms to be covered in the Part-1 [Techno-Commercial Bid] such as Delivery Terms as per (INCOTERMS), Delivery Period, Payment Terms (without mentioning the price or amount, Security Deposit for execution of Contract, Whether items needs Export License, Validity of the Offer, Warranty/Guarantee, Performance Guarantee for fulfillment of Warranty obligation , Liquidated Damages (for delayed supplies) and All available technical literature, catalogues and other data in support of the specifications and details of the items etc, have to be filled up on line.

1.15 In case of indigenous stores the quotation should be on FOR-Destination / Door delivery basis.

1.16 Specification: Stores offered should strictly conform to our specification. Deviations, if any, should be clearly indicated by the Tenderer in their quotation. The Tenderer should also indicate the Make / Type number of the Stores offered and upload catalogues, technical literature along with the quotations and provide samples wherever necessary. Test Certificates wherever necessary should be forwarded along with Supplies. Whenever options are called for and specifically mentioned by us, the Tenderer could suggest changes to specifications with appropriate response for the same.

1.17 Approximate Net and Gross weight of the items offered shall be indicated in your offer. If

dimensional details are available the same should also be indicated in your offer.

1.18 The Purchaser shall be under no obligations to accept the lowest or any tender and reserve the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the Tenderers shall supply the same at the rates quoted.

1.19 In case of Two-Part Public/Open Tender, the exact date and time of opening of Price Bid of successful Tenderers will be intimated later. The opening date and time informed by NRSC shall be subject to changes due to Network/ Computer Server related problems. In such instances, the tender opening may get delayed by one or two days and the exact date and time of opening will be intimated later in case of Public or Open Tender.

1.20 The Tenderer should supply along with his tender the Name of his Bankers, if required by the Purchaser.

1.21 The Purchaser reserves the right to place order on the successful Tenderers for additional quantity up to 25% of the quantity offered by them at the rates quoted.

1.22 NRSC reserves the right to cancel the tender at any point of time, by recording the reasons thereof.

1.23 Foreign Vendors, Registered Vendors or Vendors who have already applied for Renewal of Registration, Central PSUs/PSEs/Autonomous Bodies, Micro and Small Enterprises, KVIC, National Small Industries Corporation etc., shall be exempt from the payment of EMD.

1.24 Evaluation of the tenders shall be done item-wise technically suitable lowest offers in order to arrive L1, unless any other specific terms are mentioned in the tender document.

STANDARD TERMS & CONDITIONS OF TENDER FOR INDIGENOUS STORES

2.0 Terms and Conditions:

2.1 Definitions:

(a) The term 'Purchaser' shall mean the President of India represented by Director or Head, Purchase and Stores, National Remote Sensing Centre [NRSC] Hyderabad or his successors or assigns.

(b) The term 'Contractor' shall mean the person, firm or company, with whom or with which the Order for the supply of Stores is placed and shall be deemed to include the Contractor Successors/Representative, Heirs, Executors and Administrators unless excluded by the Contract.

(c) The term 'Purchase Order' shall mean the communication signed on behalf of the Purchaser by an officer duly authorized intimating the acceptance on behalf of the Purchaser on the terms and condition mentioned or referred to in the said communication accepting the Tender or offer of the Contractor for supply of Stores or Plant, Machinery or part thereof.

(d) The term 'Stores' shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants and machinery and subsequent testing should such a condition be included in the Purchase Order.

3.0 Prices:

Tenders offering Firm and Fixed Prices will be considered. Where a price variation clause is insisted upon by a Tenderer for quotations a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variations.

4.0 Security Deposit (SD)

10% value of the order shall be deposited with NRSC within 15 days from the date of receipt of Purchase Order towards Security Deposit in the form of Bank Guarantee on Rs.100/- non-judicial stamp paper (as per format given by NRSC- Specimen copy enclosed as Appendix-I) from a Nationalised / Scheduled Bank towards performance of the Contract valid till completion of the contract period plus sixty days. This will be returned by NRSC on execution of the order satisfactorily as per order terms upon request received from the supplier. If the supplier fails to execute the order, then the SD shall be forfeited without any further reference.

Central Public Sector Undertakings [PSUs]/Public Sector Enterprises [PSEs]/Autonomous Bodies are exempted from payment of Security Deposit [SD], and instead, an Indemnity Bond (as per format given by NRSC- Specimen copy enclosed as Appendix-II) shall be executed in lieu of SD.

SD IS NOT REQUIRED, IF THE LANDED COST IS BELOW Rs.5 LAKHS.

4.1 Performance Bank Guarantee (PBG) : 10% of the total order value shall be submitted as PBG in the form of Bank Guarantee on Rs.100/- non-judicial stamp paper (as per format given by NRSC- Specimen copy enclosed as Appendix-III) from a Nationalized / Scheduled Bank at the time of supply valid till the completion of warranty period plus 60 days. The same will be released to the supplier after

satisfactory completion of warranty period upon request received from the supplier. If the supplier fails to execute the warranty obligations, then the PBG shall be forfeited without any further reference.

OR

10% of the order value shall be withheld till the completion of warranty period and the same will be released to the supplier after satisfactory completion of warranty period based on your request. No interest is payable/allowed. If the supplier fails to execute the warranty obligations, then this amount shall be forfeited without any further reference.

Central Public Sector Undertakings [PSUs]/Public Sector Enterprises [PSEs]/Autonomous Bodies are exempted from submission of PBG and instead, an Indemnity Bond (as per format given by NRSC-Specimen copy enclosed as Appendix-IV) shall be executed in lieu of PBG.

4.2 COMBINED BANK GUARANTEE (SD Cum PBG) :

In case, if parties are unable to provide two separate BGs, i.e., one for SD & one for PBG, they can submit a combined BG for SD & PBG for 10% of the Order value valid till the completion of total contractual obligation (i.e., Supply period + warranty period + 60 days) within 15 days from the date of receipt of Purchase Order in the form of Bank Guarantee on Rs.100/- non-judicial stamp paper from a Nationalised / Scheduled Bank (as per format given by NRSC- Specimen copy enclosed as Appendix-V).

This will be returned by NRSC on execution of the purchase order satisfactorily as per order terms upon request received from the supplier. If the supplier fails to execute the order, then this BG shall be forfeited without any further reference.

5.0 Guarantee and Replacement:

(a) The Contractor shall guarantee that the Stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.

(b) Guarantee for the period as indicated in the tender documents shall be after acceptance of the Stores. If any defects are discovered, therein or any defects therein are found to have developed under proper use arising from faulty materials, design or workmanship, Contractor shall remedy such defects at his own cost provided, he is called upon to do so within a period of 14 months from the date of acceptance thereof, by the Purchaser who shall state in writing in what respect the Stores or any part thereof, are faulty.

(c) If in the opinion of the Purchaser, it becomes necessary to replace or renew any defective Stores, such replacement or renewal shall be made by the Contractor free of all costs to the Purchaser, provided the notice informing the Contractor of the defect is given by the Purchaser in this regard within the said period of 14 months from the date of acceptance of Stores thereof.

(d) If Contractor fail to rectify the defects, the Purchaser shall have right to reject or repair or replace, at the cost of the Contractor the whole or any portion of the defective Stores.

(e) The decision of the Purchaser, notwithstanding any prior approval or acceptance or inspection thereof, on behalf of the Purchaser, as to whether or not the Stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or as to whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) To fulfil guarantee conditions outlined in Clause 23.0 (a) to (h) above, the Contractor shall, at the option of the Purchaser, furnish a Bank Guarantee (as prescribed by the Purchaser - Bank Guarantee format) from a Nationalized/Scheduled Bank approved by the Purchaser for an amount equivalent to 10% of the value of the Contract within a reasonable time after the receipt of PO/Contract for the due performance of the Contract as well as the product delivered. On the performance and completion of the contract in all respects, the Performance Bank Guarantee will be returned to the Contractor without any interest.

(g) All the replacement Stores shall also be guaranteed for a period of 12 months from the date arrival of Stores at Purchaser's site.

(h) Even while the 12 months guarantee applies to all Stores in case where a greater period is called for by our specifications then such a specification shall apply, in such cases the period of 14 months referred to in Clause 23.0 (a) and (h) shall be the 'asked for' guarantee period plus two months.

6.0 PACKING FORWARDING & INSURANCE:

The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

7.0 . DISPATCH:

The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods despatched. The consignment should be dispatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on 'said to contain' basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

8.0 . TEST CERTIFICATE:

Wherever required, test certificates should be sent along with the despatch documents.

9.0 Acceptance of Stores:

(a) The Stores shall be tendered by the Contractor for Inspection at such places as may be specified by the Purchaser at the Contractor's own risk, expenses and cost.

(b) It is expressly agreed that the acceptance of the Stores contracted for is subject to final approval by the Purchaser, whose decision shall be final.

(c) If, in the opinion of the Purchaser, all or any of the Stores that do not meet the performance or quality requirements specified in the Purchaser Order, they may be either rejected or accepted at a price to be fixed by the Purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d) If the whole or any part of the Stores supplied are rejected in accordance with Clause No.9.0 (c) above, the Purchaser shall be at liberty, with or without notice to the Contractor, to Purchase in the open market at the expense of the Contractor, Stores meeting the necessary performance and quality contracted for in place of those rejected, provided that either the Purchaser or the agreement to Purchase from another supplier is made six months from the date of rejection of the Stores as aforesaid.

10.0 REJECTED STORES:

Rejected stores will remain at destination at the Contractor's risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

11.0 DELIVERY:

(a) The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed on or before the specified dates.

(b) Should the Contractor fail to deliver the stores or any consignment thereof within the period prescribed for such delivery, the purchaser shall be entitled at his option either.

(i) to recover from the Contractor as agreed liquidated damages and not by way of penalty, a sum of 0.5% per week of the price of any stores which the Contractor has failed to deliver as aforesaid or during which the delivery of such store may be in arrears subject to a maximum of 10%, or

(ii) to purchase from elsewhere, without notice to the Contractor on the account and at the risk of the

Contractor, the stores not delivered or others of a similar description (where others exactly complying with the particulars, are not, in the opinion of the purchaser, readily procurable, such opinion being final) without cancelling the Contract in respect of the consignment (s) not yet due for delivery, or

(iii) to cancel the Contract or a portion thereof and if so desired to purchase or authorise the purchase of stores not so delivered or others of a similar description (where others exactly if complying with the particulars are not, in the opinion of the purchaser, readily procurable, such opinion final) at the risk and cost of the Contractor.

In the event of action being taken under sub-clause (ii) & (iii) of clause 11.0 (b) above, the Contractor shall be liable for any loss which the purchaser may sustain on that account, provided that the re-purchase or if there is an agreement to repurchase then such agreement is made within six months from the date of such failure. But the Contractor shall not be entitled to any gain on such re-purchase made against default. The manner and method of such re-purchase shall be at the discretion of the purchaser, whose decision shall be final. It shall not be necessary for the purchaser to serve a notice of such re-purchase on the defaulting Contractor. This right shall be without prejudice to the right of the purchaser to recover damages for breach of Contract by the Contractor.

12.0 EXTENSION OF TIME:

As soon as it is apparent that the Contract dates cannot be adhered to, an application shall be sent by the Contractor to the purchaser. If failure, on the part of the Contractor, to deliver the stores in proper time shall have arisen from any cause which the purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final) he may allow such additional time as he considers it to be justified by circumstances, of the case without prejudice to the purchaser's right to recover liquidated damages under clause 11.0 thereof.

13.0 ERECTION OF PLANT & MACHINERY:

Wherever erection of a plant or machinery is the responsibility of the Contractor as per the terms of the Contract and in case the Contractor fails to carry out the erection as and when called upon to do so within the period specified by the purchaser, the purchaser shall have the right to get the erection done through any source of his choice. In such an event, the Contractor shall be liable to bear any additional expenditure that the purchaser is liable to incur towards erection. The Contractor shall, however, not be entitled to any gain due to such an action by the purchaser.

14.0 PAYMENT:

Contractor's bill will be passed for payment only after the stores have been received, inspected and accepted by the Purchaser.

15.0 Mode of Payment :

(a) In case of indigenous orders 100% payment shall be made through PFMS within 30 days of receipt and acceptance of the item at our site and on submission of PBG (if applicable)

(b) For high value orders, 80% payment within 30 days of receipt, installation and acceptance and balance 20% on production of a Performance Bank Guarantee for 10% of the Order value valid till 2 months after the expiry of warranty period.

16.0 RECOVERY OF SUM DUE:

Whenever any claim for the payment of, whether liquidated or not, money arising out of or under this Contract against the Contractor, the purchaser shall be entitled to recover such sum by appropriating in part or whole, the security deposited by the Contractor, if a security is taken against the Contract. In the event of the security being insufficient or if no security has been taken from the Contractor, then the balance or the total sum recoverable as the case may be, shall be deducted from any sum then due or which at any time thereafter may become due to the Contractor under this or any other Contract with the purchaser. Should this sum be not sufficient to cover the full amount recoverable, the Contractor shall pay to the purchaser on demand the remaining balance due. Similarly, if the purchaser has or makes any claim, whether liquidated or not, against the Contractor under any other Contract with the purchaser, the payment of all moneys payable under the Contract to the Contractor including the security deposit shall be withheld till such claims of the purchaser are finally adjudicated upon and paid by the Contractor.

17.0 INDEMNITY:

The Contractor shall warrant and be deemed to have warranted that all stores supplied against this Contract are free and clean of infringement of any Patent, Copyright or Trademark, and shall at all times indemnify the purchaser against all claims which may be made in respect of the stores for infringement of any right protected by Patent Registration of design or Trade mark and shall take all risk of accidents or damage which may cause a failure of the supply from whatever cause arising and the entire responsibility for sufficiency of all means used by him for the fulfilment of the contract.

18.0. ARBITRATION:

In the event of any question, dispute or difference arising under these conditions or any conditions contained in the Purchase Order or in connection with this Contract (except as to any matter the decision of which is specially provided for by these conditions), the same shall be referred to the sole arbitration of the Head of the Purchase office or some other person appointed by him. It will be no objection that the arbitrator is a Government servant, that he had to deal with matter to which the Contract relates or that in the course of his duties as Government servant he has expressed views on all or any other matters in dispute or difference. The award of the arbitrator shall be final and binding on the parties of this Contract.

If the arbitrator be the Head of the Centre/Unit

(i) In the event of his being transferred or vacating his office by resignation or otherwise, it shall be lawful for his successor-in-office either to proceed with reference himself, or to appoint another person as arbitrator, or

(ii) In the event of his being unwilling or unable to act for any reason, it shall be lawful for the Head of the Centre/Unit to appoint another person as arbitrator.

If the arbitrator be a person appointed by the Head of the Purchase Office, In the event of his dying, neglecting or refusing to act or resigning or being unable to act, for any reason, it shall be lawful for the Head of the Centre/Unit either to proceed with the reference himself or appoint another person as arbitrator in place of the outgoing arbitrator.

Subject as aforesaid the Arbitration & Conciliation Act 1996 and the rules thereunder and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitration proceedings under this Clause. The Arbitrator shall have the power to extend with the consent of the purchaser and the Contractor the time for making and publishing the award. The venue of arbitration shall be the place as purchaser in his absolute discretion may determine. Work under the Contract shall, if reasonably possible, continue during arbitration proceedings.

In the event of any dispute or difference relating to the interpretation and application for the provisions of the Contracts, such dispute or difference shall be referred by either party to Arbitration of one of the Arbitrations in the Department of Public Enterprises. The Arbitration Act 1996 shall not be applicable to arbitration under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute provided however any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs. Ministry of Law & Justice, Govt. of India. The parties to the dispute will share equally, the cost of arbitration as intimated by Arbitrator.

18.1 Arbitration with Public Sector Undertakings:

In the event of any dispute or difference relating to the interpretation and application of the Contract, such dispute or difference shall be settled amicably by mutual consultations of the good Offices of the respective parties. If such a resolution is not possible, then the unresolved dispute or difference shall be referred to the Sole Arbitrator appointed in the Department of Public Enterprise under the Permanent Machinery for Arbitration.

19.0. COUNTER TERMS AND CONDITION OF SUPPLIERS:

Where counter terms and conditions printed or cyclostyled conditions have been offered by the supplier, the same shall not be deemed to have been accepted by the Purchaser, unless specific written acceptance thereof is obtained.

20.0. SECURITY FOR PURCHASE OF MATERIALS:

Successful tenderer will have to furnish in the form of a bank guarantee or any other form as called for by the purchaser towards adequate security for the materials and properties provided by the Purchaser for the due execution of the Contract.

21.0 Force Majeure:

21.1 Neither party shall bear responsibility complete or partial non-performance of any of his obligations [except for failure to pay any sum which has become due on account of receipt of goods under the provisions of the Purchase Order/Contract] if the non-performance results from such force majeure circumstances such as, but not restricted to, flood, fire, earthquake, civil commotion, sabotage, explosion, epidemic, quarantine restriction, strike, lock out, freight embargo, acts of the Government either in its sovereign or its contractual capacity, hostility, acts of public enemy and other acts of God as well as war or revolution, military operation, blockade, acts or actions of state authorities or any other circumstances beyond the control of the parties that have arisen after the conclusion of Purchase Order/Contract. In such circumstances, the time stipulated for the performance of an obligation under the Purchase Order/Contract may be proportionately extended.

21.2 The party for whom it has become impossible to meet the obligation under this contract due to force majeure condition will notify the other party in writing not later than 21 days from the date of commencement of unforeseeable event. Unless agreed by both the parties, in writing, the Contractor shall continue to perform his obligations under the Purchase Order/Contract as far as is practical and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

21.3 Any Certificate issued by the Chamber of Commerce or any other competent authority or organization of the respective country shall be sufficient proof of commencement and cessation of the above circumstances. In case of failure to carryout complete or partial performance of an obligation for more than 60 days, either party shall reserve the right to terminate the Contract totally or partially. A prior written notice of 30 days to the other party will be given informing of the intention to terminate without any liability.

22.0 Bank Guarantee towards Free Issue Materials (FIM), IF APPLICABLE:

The successful Tenderers shall furnish Bank Guarantee (BG) towards the cost of Free Issue Materials issued by Purchaser towards adequate Security for the FIM for the execution of the Contract. The BG is to be kept valid till supply and acceptance of the final product. BG towards FIM format is enclosed as Appendix-VI

22.1 In the case of Public Sector Undertaking, Public Sector Enterprises and Government Organization, Indemnity Bond [IB] together with Insurance shall be considered. Indemnity Bond towards FIM format is enclosed as Appendix-VII

22.2 For Fabrication of items, the Supplier should quote the rates considering the Scrap Materials generated and taken over by Supplier.

23.0 Applicable Law:

The Contract shall be interpreted, construed and governed by the Laws of India.

24.0 Jurisdiction:

The Courts within Hyderabad will have the Jurisdiction to deal with and deciding any matter arising out of this Contract.

25.0 Indemnity:

The Contractor shall warrant and deemed to have warranted that all Stores/Services/Supplied/Rendered against this Contract/Purchase Order are free and clean of infringement of any Patent, Copy Right or Trademark and shall at all times indemnify the Purchaser against all claims which may be made in respect of the Stores for infringement of any right protected by Patent, Registration of the design or Trade mark and shall take all risk of accidents or damage which may cause a failure of the supply from whatever cause arising and the entire responsibility for the sufficiency of all the means used by him for the fulfilment of the Contract.

26.0 Counter Terms & Conditions:

Where counter terms and conditions printed or cyclostyled condition have been offered by the supplier, the same shall not be deemed to have been accepted by the Purchaser, unless specific written acceptance thereof, is obtained.

27.0 Security Interest:

On each item to be delivered under this Contract, including an item of work in progress in respect of which payment have been made in accordance with the Terms of the Contract. Purchaser shall have a Security Interest in such items which shall be deemed to be released only at the time when the applicable deliverable items is finally accepted and delivered to the Purchaser in accordance with the terms of Contract. Such Security Interest of the Purchaser shall constitute a prior charge as against any other charge or interest created in respect of such items by any other entity.

28.0 Training:

The Contractor shall, if required by the Purchaser, provide facilities for the Practical Training of Purchaser's Engineering or Technical Personnel from India and for their active association on the manufacturing process throughout the manufacturing period of the Contract/Stores, number of such personnel to be mutually agreed upon.

29.0 Taxes :

For indigenous Stores/ items:

Taxes shall be distinctly shown in the offer.

GST/IGST: Please mention GST only in percentage. (HSN/SAC code shall be indicated for each item and accordingly mention the GST Rate applicable as per prevailing guidelines).

30.0 Annual Maintenance Contract [AMC]/Extended Warranty (IF Applicable):

Tenderers are requested to quote separately towards Annual Comprehensive Maintenance Service/Extended Warranty and Non-Comprehensive Maintenance besides attending to unlimited Break-Down calls wherever specification calls for after expiry of Standard Warranty.

31.0 Transparency:

Tenderers are free to ask Purchaser for the Bidding conditions, Process and/or Rejection of bids etc., during the procurement process.

32.0 Implementation of Government Purchase and Price Preference Policy for MSEs:

In order to avail of the benefits extended by Government of India to the Micro and Small Enterprises [MSEs], please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by General Manager, District Industries Center or National Small Industries Corporation [NSIC] Registration Certificate along with your offer. The facilities/ benefits will be extended as per Order issued by Ministry of MSME, Government of India, New Delhi from time to time. The benefit will be extended to MSEs upto the monetary ceiling fixed by MSME.

33.0 Change in the Name and Address of the Supplier:

In the event of Change in Name and Address of Supplier, Documentary Proof issued by the Appropriate Government Authorities shall be produced for such change.

34.0 Splitting of Order[s]:

The Volume/Quantity for certain specialized nature of jobs is considerably large and it is necessary the orders are split with more than one party in order to ensure timely delivery/services. NRSC reserves right to split the Purchase Orders to more than one party. However, every effort will be made to bring the Commercial aspect including price of the parties on a single common platform. This is aimed at providing equal opportunity for the parties while taking the decision.

35.0 Validity of Offer:

The minimum validity of the tender submitted against Single Part shall be 120 days from the date of opening of the tender. In case of Two Part tender, the tender should be valid for a period of 180 days after opening of Part-I (Technical bid).

36.0 Buy-Back Offer:

Wherever Contract considered necessary, the quotation shall be given separately with Buy-Back Offer and also without Buy-Back Offer so as to enable Purchaser either to Trade or not to Trade the item while purchasing the new one.

37.0 The Tenderer shall bear all cost towards preparation of tender document, Supply of Samples and arranging demonstration.

38.0 Risk Purchase:

Risk Purchase Clause will be applicable wherever considered necessary.

39.0 Fall Clause:

The price[s] charged for the Stores/Services supplied under the Contract by the Contractor shall be no event exceed the lowest price at which the Contractor sells the Stores/Services or offer to sell the Stores of identical description to any person[s], Firm, Party, Organisation[s] including the Purchaser or any Department of Central Government or any Department of State Government or any statutory undertaking of the Central/State Government as the case may be during the period till the performance of all supply orders placed during the currency of the Rate Contract is completed.

If at any time during the said period, the Contractor reduces the sale price, sells or offers to sell such Stores/Services to any person[s], Organisation[s], including the Purchaser or any Department of

Central Government or any Department of State Government or any statutory undertaking of the Central or a State Government as the case may be, at a price lower than the price chargeable under the Contract, he shall forthwith notify such reduction or sale of offer to the Purchaser and the price payable under the Contract for the Stores/Services supplied after the date of coming into force of such reduction or sale or offer of sale stand correspondingly reduced.

40.0 Conditional Discount/Offer:

Conditional Discounts/Offer will not be considered.

41.0 Termination:

Under the normal circumstances, Termination/Short Closing of the PO/Contract is not foreseen. However in case of repeated non performance of the PO/Contract, NRSC reserves the right to terminate the Contract in whole or in part by giving 30 days prior notice under the following circumstances:

[i] For repeated non-performance in the execution of P.O/Contract.

[ii] If the Contractor fails to deliver the final Product within the stipulated delivery schedule or any extension thereof, granted by the Purchaser.

[iii] If the final Product does not pass inspection and quality requirements of P.O/Contract

[iv] If the Contractor fails to perform any other obligations under P.O/Contract.

[v] If the Contractor becomes bankrupt or otherwise insolvent.

[vi] Owing to deficiency of service, breach of Contract.

[vii] For inefficiency, indiscipline, irregularity, insincerity, indifference in work, disobedience, doubtful credentials/integrity, etc., at any point of time during the Contract period.

[viii] To terminate the PO/Contract at any time by giving 30 days prior notice.

42.0 Parallel Contract:

NRSC reserves the right to enter into Parallel Contract/s with one or more Contractors.

43.0 Subletting Contract:

The Contract shall not be sublet, transferred or assigned to any other firm/agencies/person, etc., without the prior written permission of NRSC. In case of violation of this clause, the Service Provider/Contractor shall be solely responsible for any legal action besides termination of Contract.

44.0 Clarification regarding contents of the Bids:

During evaluation and comparison of bids, the Buyer may, at his discretion, ask the bidder for clarification on their bid.

The request for clarification will be given in writing and no change in prices or substance of the bid will be sought, offered or permitted. In case, tenderer fails to provide clarifications/confirmations within a specified time, the original bid submitted by the tenderer shall be treated as incomplete and liable for rejection. No post-bid clarification on the initiative of the bidder will be entertained.

45.0 Rejection of Bids:

Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection of Bids. Conditional Tenders will be rejected.

46.0 Secrecy:

The technical information, drawings, specifications and other related documents provided by the Purchaser and forming part of the Contract are the property of Purchaser and shall not be used for any other purpose, except for execution of the Contract. All rights, including rights in the event of grant of patent and registration of designs are reserved. The technical information, drawings, specifications, records and other documents provided by the Purchaser shall not be copied, transcribed, traced or reproduced in any other form or otherwise in whole and/ or duplicated, modified, divulged and/or disclosed to a third party nor misused in any other form whatsoever without Purchaser's consent in writing except to the extent required for the execution of this Contract. These technical information, drawings, specifications and other related documents which were originally provided by the Purchaser shall be returned to the Purchaser with all approved copies and duplicates, if any, immediately after they have been used for the agreed purpose.

47.0 Limitation of Liability:

47.1 The remedies stated in this Contract are exclusive and in no event shall the Contractor be liable for any, special, incidental, consequential or punitive damages of any nature. Notwithstanding any other provision of this contract, the Contractor's total liability to the Purchaser, whether in Contract shall not exceed the total amount paid to the Contractor under this Contract.

47.2 The Purchaser shall be under no obligations to accept the lowest or any tender and reserve the

right of acceptance of the whole or any part of the tender or portion of the quantity offered and the Tenderer[s] shall supply the same at the rates quoted.

47.3 The Tenderer shall bear all cost towards preparation of tender.

48.Guidelines on Debarment of firms from Bidding:

Vendors may note the Guidelines on Debarment of firms vide O.M No. F.1/20/2018-PPD dated 02.11.2021 issued by Department of Expenditure in line with rule no.151&175(code of Integrity) of GFR(General Financial Rules). On submission of bids, it is presumed that bidders have read and understood the Debarment guidelines.

Public Procurement Policy Make In India:

Eligible Bidders

The bids shall be in Indian National Rupees (INR) (Not applicable for Global Tender Enquiry).

The bidder shall have to be an entity registered in India in accordance with law.

Class-I & Class II local suppliers are only eligible to participate in this tender as per Make in India procurement policy of Govt. of India and Department for Promotion of Industry and Internal Trade (DPIIT) order No. P-45021/2/2017-PP(BE-II)dated 04thJune,2020&16thSeptember 2020in which the OM contains as follows:

a)In procurement of goods or services which are divisible in nature, the following procedure shall be followed to evaluate L1

With the margin of purchase preference of 20% to Class-I Local supplier:

i.Among all qualified bids, the lowest bid will be termed as L1. If L1 is from a Class-I local supplier, the contract for full quantity will be awarded toL1.

ii.If L1 bid is not from a Class-I local supplier, 50% of the order quantity shall be awarded to L1.Thereafter, the lowest bidder among the Class-I local suppliers, will be invited to match the L1price for the remaining 50% quantity subject to the local suppliers quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such Class-I local supplier subject to matching the L1 price. In case such lowest eligible Class-I local supplier fails to match the L1 price or accepts less than the offered quantity, the next higher Class-Ilocal supplier within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on local suppliers, then such balance quantity may also be ordered on the L1 bidder.

b)In procurement of goods or services which are not divisible in nature, the following procedure shall be followed to evaluate L1 and award of contract:

i.Among all qualified bids, the lowest bid will be termed as L1. If L1 is from a Class-I local supplier, the

contract will be awarded to L1.

ii.If L1 is not from a Class-I local supplier, the lowest bidder among the Class-I local suppliers, will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such Class-I local supplier subject to matching the L1 price.

iii.In case such lowest eligible Class-I local supplier fails to match the L1 price, the Class-I local supplier with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the Class-I local suppliers within the margin of purchase preference matches the L1 price, then the contract may be awarded to the L1 bidder.

c)Definitions of terms applicable to this clause as per OM:

i.'Local content ' means the amount of value added in India which shall be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item(including all customs duties)as a proportion of the total value, in percent.

ii.'Class-I Local supplier' means a supplier or service provider whose goods or services offered for procurement, has local content equal to or more than 50% as defined under the Order referred.

iii. Class-II local supplier means a supplier or service provider, whose goods or services offered for procurement, has local content equal to or more than 20% but less than 50%, as defined under the Order referred.

iv.Non-Local supplier means a supplier or service provider, whose goods or services offered for procurement, has local content less than or equal to 20%, as defined under the Order referred.

v.'Margin of purchase preference' means the maximum extent to which the price quoted by a Class-I local supplier may be above the L1 for the purpose of purchase preference.

d)Verification of local content

i.The Class-I local supplier/Class-II local supplier at the time of tender, bidding or solicitation shall be required to Indicate percentage of local content &provide self certification that the item offered meets the minimum local content and shall give details of the location(s) at which the local value addition is made.

ii.In cases of procurement for a value in excess of 10 crores, the local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies)or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

iii.False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Finance Rules along with such other actions as maybe permissible under law.

Exemption for Small Purchases : The above restrictions are not applicable for procurements where the Bid Value is upto Rs. 5 Lakhs as per the above said OM.

Purchase Preference to MSEs:

i) In case MSE bidder is L1 entire value of the tender is to be ordered on the L1 MSE bidder.

ii) In tender, participating Micro and Small Enterprises quoting price within price band of L1 + 15% shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise and such Micro and Small Enterprise shall be allowed to supply up to 25 percent of the total tendered value (where the tender quantity can be split).

iii) In case of more than one such MSEs are in the price band of L1 + 15% and matches the L1 price, the supply may be shared proportionately if the goods can be split.

iv) In case the tendered quantity of goods cannot be split, MSE shall be allowed to supply total tendered quantity provided their quoted price is within a price band of L1 + 15% and they match the L1 price.

v) If the quantity cannot be split and there are more than one eligible MSE bidders (price band within L1+15%) then the opportunity to match the L1 rate of the tender shall be given first to MSE (who have quoted lowest rate among the MSEs within the price band of L1+15%) and the total quantity shall be awarded to him after matching the L1 price of the tender.

vi) If the MSE who have quoted lowest rate among the MSEs in the price band of L1 + 15% do not agree to match the rate of L1 of the tender, then the next ranked MSE bidder (who has quoted within the price band of L1+15%) shall be given chance to match the rate of L1 for award of the quantity/order.

vii) For more clarity in this regard, following table is furnished:

Quantity of

| Tendered goods | Price quoted by MSE | Finalization of tender |
|-----------------|--------------------------|--|
| Can be Split | L1 | Full order on MSE |
| Can be Split | Not L1 but within L1+15% | 25% order on MSE subject to matching L1 |
| Cannot be Split | L1 | Full Order on MSE |
| Cannot be Split | Not L1 but within L1+15% | Full Order on MSE subject to matching L1 |

viii) The purchase preference to MSE is not applicable for Stores/Services where supply of goods/services not produced by MSEs is also involved.

*NOTE: Any amendment/modifications issued by Govt. of India from time to time w.r.t to above OM's shall also be complied in addition to the guidelines.

2. MII Self-Certification Format

(to be printed in letter head)

Self-Certification under preference to Make in India order Certificate

In line with Government Public Procurement Order No. P-45021/2/2017-PP (BE-II) dated 16.09.2020 and its amendments, we hereby certify that we M/s are Class-I/Class-II local supplier meeting the requirement of minimum local content i.e.,% as defined in above orders for the material against Tender Enquiry No

Details of location at which local value addition will be made as follows:
Following documents are to be submitted as Annexure to this certification in technical offer/ Part-I bid:

i. Local Component list:

i.e Items and services which are being procured / produced domestically by supplier in the system / equipment / service offered against tender. This list shall include all the components, raw materials, sub services etc.

ii. Foreign/ Imported Component list:

i.e Items and services which are being supplied by bidder from outside India in the system / equipment / service offered against tender. This list shall include all the components, raw materials sub services etc.

iii. Location(s) details from where foreign / imported components are being supplied also provided.

Please Note that the services such as transportation, insurance, installation, commissioning, training and after sales support like AMC/CMC, etc shall not be considered for local value addition.

Declaration:

We also understand, false declarations will be in breach of the code of integrity under rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Thanking You

Signature with date: Name:

Designation:

Official Seal

C. Bid Templates

C.1 Technical Bid - Supply, Installation and Commissioning of Ka band satellite link for Antarctica connectivity

1. ANTENNA SYSTEMS 5th year post warranty CAMC for Ka Band antenna at Bharathi Station Antarctica

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|------------------------------------|-------|------------|-----------------------|--------|
| 1 | Specifications are same as SI.No 8 | | - | | |

Document : Ant CAMC

2. ANTENNA SYSTEMS Ka band antenna System at Bharathi station Antarctica with 3 years standard warranty

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|--|--------------------|-----------------------|--------|
| 1 | Antenna Diameter | 10.0 meters max. | Yes / No / Explain | | |
| 2 | Reflector Type | Parabolic main reflector with sub-reflector & Cassegrain geometry. | Yes / No / Explain | | |
| 3 | Antenna Mount | Elevation over Azimuth | Yes / No / Explain | | |
| 4 | Feed System | 4 Port frequency reuse LP & CP switchable Monopulse feed | Yes / No / Explain | | |
| 5 | Operating frequency (GHz) Transmit frequency | 27.5 to 31.0 GHz | Yes / No / Explain | | |
| 6 | Receive frequency | 17.7 to 21.2 GHz | Yes / No / Explain | | |
| 7 | Transmit Gain (without Radome) | 65.4 dBi at 27.8 GHz | Yes / No / Explain | | |

| | | | | | |
|----|---|---|--------------------|--|--|
| 8 | Receive Gain (without Radome) | 62.2 dBi at 18.1 GHz | Yes / No / Explain | | |
| 9 | EIRP (with 400 watt CW power at HPA flange, at 27.8 GHz and single carrier operation) | Shadnagar: 89.5 dBW without Radome. Antarctica: 89.0 dBW with Radome. | Yes / No / Explain | | |
| 10 | G/T with 1:2 LNA system at 18.1 GHz (clear sky) | Shadnagar: 38.2 dB / deg K min. at 20 deg El without radome. Antarctica: 37.2 dB/ deg K min. with Radome and at 10 deg El. | Yes / No / Explain | | |
| 11 | Transmit & Receive VSWR | 1.4:1 | Yes / No / Explain | | |
| 12 | Polarization | LP / CP switchable. Simultaneous RHCP & LHCP in CP or V & H with +/- 60 deg rotatable in LP. | Yes / No / Explain | | |
| 13 | Axial Ratio – on axis (Cross Pol Isolation-XPI) | 0.55 dB (30 dB) | Yes / No / Explain | | |
| 14 | Pattern envelop | Complaint to ITU 580-6, first side lobe: -14 dB | Yes / No / Explain | | |
| 15 | Power handling Capability | 500 W CW min. per transmit port | Yes / No / Explain | | |
| 16 | Tx to Rx and Tx to TRK Isolation | 85 dB min. | Yes / No / Explain | | |
| 17 | Tx / Tx and Rx / Rx isolation | 30 dB in LP and 17 dB in CP | Yes / No / Explain | | |
| 18 | Tracking Accuracy - Monopulse | 0.010 deg RMS upto 60 Kmph winds | Yes / No / Explain | | |
| 19 | Pointing Accuracy | Better than 1/5th of Half Power Beam width | Yes / No / Explain | | |
| 20 | Modes of operation / Tracking | Standby, Manual, Command position, Slew, Monopulse Auto Track, Program Track, Op-track/Step track, Preset Position, Sun/Star Track, Stow lock, Auto phasing, Augmented Auto Track (Auto track over program track), Hand crank, etc. | Yes / No / Explain | | |

| | | | | | |
|----|---|--|--------------------|--|--|
| 21 | Angular resolution | 0.001 deg min. for Azimuth and Elevation axis | Yes / No / Explain | | |
| 22 | Mechanical | | - | | |
| 23 | Axis Drives & velocity (Anti backlash system) | | - | | |
| 24 | Elevation drive | Jackscrew, 0.2 deg/s | Yes / No / Explain | | |
| 25 | Azimuth drive | Dual drive, 0.5 deg/s | Yes / No / Explain | | |
| 26 | Antenna Travel | | - | | |
| 27 | Elevation travel | 0 deg to 90 deg continuous | Yes / No / Explain | | |
| 28 | Azimuth travel | +/- 100 deg continuous | Yes / No / Explain | | |
| 29 | Polarization travel | +/- 60 deg continuous in LP | Yes / No / Explain | | |
| 30 | ENVIRONMENTAL | | - | | |
| 31 | Temperature - Operational range | - 40 deg to + 20 deg. C for Antarctica antenna. 0 deg to + 50 deg C for Shadnagar Antenna | Yes / No / Explain | | |
| 32 | Wind Speed | | - | | |
| 33 | Operational | 60 Kmph | Yes / No / Explain | | |
| 34 | Survival | 200 Kmph | Yes / No / Explain | | |
| 35 | Primary power | 230 V 50 Hz AC, +/- 10%, single phase; 400 V 50 Hz \pm 10% three phase. | Yes / No / Explain | | |
| 36 | All structural elements exposed to the environment shall be suitably coated for protection from extreme and harsh environments. | | - | | |
| 37 | The feed and the waveguides are to be pressurised with 0.5 psi pressure. | | - | | |

| | | | | | |
|----|---|--|---|--|--|
| 38 | <p>Safety Features like Limit switches, Emergency stop switches at appropriate locations, Lightening Arrestors, Aviation lamp, Stow lock for Azimuth & Elevation, Mechanical Stopper, Hand cranking facility, feed blower, etc to be provided. These features are only indicative, other standard working safety features to be included.</p> | | - | | |
| 39 | <p>G/T, EIRP, Wind load & Rain attenuation analysis/budget for the proposed system shall be provided with the quotation. RF& IF level diagrams (uplink, downlink and the tracking chain), C/No and threshold Eb/No margins shall be provided. Tentatively spacecraft EIRP of 63.0 dBW may be considered.</p> | | - | | |
| 40 | <p>Pointing / tracking error budget with analysis should be submitted. The worst case pointing / tracking error shall be computed for the antenna system by the vendor.</p> | | - | | |

| | | | | | |
|----|--|--|---|--|--|
| 41 | Cable trays to route the cables from the antenna to the control room at Antarctica shall be provided and also cable tray installation / laying is to be done by the vendor. At Antarctica the cable trays shall be routed with elevated posts. Approximate distance from the antenna to the control room at Antarctica will be about 700 mtrs (approx) and about 1000 mtrs at Shadnagar. | | - | | |
| 42 | M&C for all the systems of the antenna and Servo control system to be provided with control from local and remote. | | - | | |
| 43 | Warranty: | | - | | |
| 44 | The warranty shall start after installation of all the systems, demonstration of fully functional system and completion of Final On-site Acceptance Tests. | | - | | |
| 45 | All Supplies shall be warranted for a minimum period of 3 years, for normal performance. | | - | | |
| 46 | Vendor shall provide the list of recommended spares (minimum list as per Annexure-1) that are required for maintaining the station uptime of 99% during warranty/CAMC. | | - | | |

| | | | | | |
|----|---|--|---|--|--|
| 47 | During the warranty period, all the Systems and Sub-systems shall be maintained with an uptime of 99%. If the uptime as specified is not maintained, the following down-time charges will be levied. | | - | | |
| 48 | A total Down time of 4 Days Max. per year is permissible. | | - | | |
| 49 | Over and above 4 days down time, down time compensation at the rate of 0.25% per day of the total supply value and subject to a maximum of 10% of total supply value shall be levied. | | - | | |
| 50 | Department has no obligation to discover defects, patent or otherwise, and this shall be sole responsibility of Supplier. Inspection and clearance for shipment by Department's inspectors or Inspection agency appointed by department shall not relieve Supplier of any of his obligation and duties under the terms and conditions herein. | | - | | |
| 51 | Station Maintenance during warranty Period | | - | | |
| 52 | Preventive Maintenance Antarctica and Shadnagar) | | - | | |

| | | | | | |
|----|---|--|---|--|--|
| 53 | Preventive Maintenance of the systems is to be carried out every six months for the systems at Shadnagar and in coordination with Antarctica staff for the systems at Antarctica. | | - | | |
| 54 | On-Line support (Antarctica and Shadnagar) | | - | | |
| 55 | The vendor shall provide on-line support on 24x7 basis for system maintenance in case of any breakdown. Vendor shall come to NRSC, Shadnagar to access and guide the personnel/systems at Antarctica for system access and quick maintenance. In case of any failure in the Shadnagar systems, the failure needs to be rectified by deploying a service Engineer. | | - | | |
| 56 | Corrective/Breakdown Maintenance (Antarctica and Shadnagar) | | - | | |
| 57 | The following procedure shall be followed during warranty period. | | - | | |
| 58 | Antarctica: In case of any failure, the spares maintained by the vendor at Antarctica shall be used to make the system operational and the same shall be replenished by the vendor in the next expedition, without any additional charges to NRSC/ISRO. | | - | | |

| | | | | | |
|----|---|--|---|--|--|
| 59 | Vendor shall come to NRSC, Shadnagar to access and guide the personnel/systems at Antarctica for system access and quick maintenance. In case of any equipment failure at Antarctica, the equipment will be shipped to Cape Town and the vendor needs to collect the same and after repair / replacement, equipment to be handed over at Cape Town for shipping back to Antarctica. | | - | | |
| 60 | Shadnagar: In case of any failure, the vendor shall deploy a service Engineer along with the spares (maintained by the vendor) to attend to the problem at shadnagar and make the system operational to maintain an uptime of 99%. | | - | | |

Document : Antarctica antenna

Document : RFP

3. ANTENNA SYSTEMS Transmit and Receive system for the above Antarctica antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|-----------------|--------------------|-----------------------|--------|
| 1 | Compliance to section 4.2 & 4.3 of RFP | | - | | |
| 2 | Transmit system | | - | | |
| 3 | IF Input Frequency | 950 to 1950 MHz | Yes / No / Explain | | |

| | | | | | |
|----|--|---|--------------------|--|--|
| 4 | RF Output Frequency | 27.5 to 31.0 GHz (Multiple BUCs or LO tunability to cover the complete band) | Yes / No / Explain | | |
| 5 | Tx Instantaneous bandwidth | 1 GHz | Yes / No / Explain | | |
| 6 | HPA Type & Rated Power @ Amp. Flange | Outdoor mount & 400 Watt CW or better | Yes / No / Explain | | |
| 7 | Linearizer in HPA | To be provided | Yes / No / Explain | | |
| 8 | BUC Frequency Stability (constant temperature) | Better than $\pm 1 \times 10^{-7}$ after initial warm up | Yes / No / Explain | | |
| 9 | HPA Gain Stability | +/- 0.5 dB / 24 hr. Max. (At constant drive and temp.) | Yes / No / Explain | | |
| 10 | HPA Intermodulation | -24 dBc or better with two equal carriers at total power level 4 dB below rated single carrier output with linearizer | Yes / No / Explain | | |
| 11 | Phase Noise of BUC (Better Than) | | - | | |
| 12 | @100 Hz | -55 dBc/Hz | Yes / No / Explain | | |
| 13 | @1 KHz | -80 dBc/Hz | Yes / No / Explain | | |
| 14 | @10 KHz | -87 dBc/Hz | Yes / No / Explain | | |
| 15 | @100 KHz | -90 dBc/Hz | Yes / No / Explain | | |
| 16 | Tx System Primary power | 230 V 50 Hz AC +/- 10%, single phase | Yes / No / Explain | | |
| 17 | LAN Interface | Required for M & C | Yes / No / Explain | | |
| 18 | 1:2 Switching | 1:2 Changeover switching system for HPA and BUC with Monitor & Control interfaces including local control panel/PC. | Yes / No / Explain | | |
| 19 | Tx Operating Temperature | -40deg C to +20deg C at ANT, 0 deg C to +50deg C at Shadnagar" | Yes / No / Explain | | |

| | | | | | |
|----|--|-----------------|--------------------|--|--|
| 20 | Tx Relative Humidity | 100% condensing | Yes / No / Explain | | |
| 21 | UPC to be included for real time control of transmit power in case of atmospheric and rain/snow attenuation. The UPC shall have feedback from the tracking receiver/received signal to adjust the transmit power as per the beacon level variation. Provision for variation of 20 dB minimum to be provided in the UPC. | | - | | |
| 22 | A beacon signal at a frequency of 27500 MHz needs to be transmitted to the satellite (for on board tracking) from Antarctica station. The system configuration shall meet this requirement and the equipment for the same to be planned and quoted. The EIRP of the carrier shall be 42 dBW and it is in the same polarization (RHCP) as the highspeed link. | | - | | |
| 23 | Monitor couplers to be provided at the input of the feed for monitoring of power being transmitted. Power sensors to be connected to the couplers and power to be monitored in the control room. | | - | | |
| 24 | Harmonics Reject filter (HRF) and Linearizer to be part of the HPA. | | - | | |
| 25 | M&C for all the systems of the Transmit chain to be provided. | | - | | |
| 26 | Receive system | | - | | |

| | | | | | |
|----|---|---|--------------------|--|--|
| 27 | RF Input Frequency | 17.7 to 21.2 GHz (Multiple BDCs or LO tunability to cover the complete band) | Yes / No / Explain | | |
| 28 | IF Output Frequency | 950 to 1950 MHz | Yes / No / Explain | | |
| 29 | Rx Instantaneous bandwidth | 1 GHz | Yes / No / Explain | | |
| 30 | G/T with 1:2 LNA system at 18.1 GHz (clear sky) | Shadnagar: 38.2 dB / deg K min. at 20 deg El. Antarctica: 37.2 dB/ deg K min with Radome and at 10 deg El. | Yes / No / Explain | | |
| 31 | LNA Gain | 60 dB min | Yes / No / Explain | | |
| 32 | BDC Gain | 30 dB min | Yes / No / Explain | | |
| 33 | BDC Spurious | Signal related: better than - 60 dBc, Signal Independent: better than - 72 dBm | Yes / No / Explain | | |
| 34 | BDC Image Rejection | Better than 60 dB | Yes / No / Explain | | |
| 35 | Phase Noise of BDC (Better than) | | - | | |
| 36 | BDC_100Hz | -70dBc/Hz | Yes / No / Explain | | |
| 37 | BDC_1 KHz | -82dBc/Hz | Yes / No / Explain | | |
| 38 | BDC_10 KHz | -90 dBc/Hz | Yes / No / Explain | | |
| 39 | BDC_100 KHz | -94dBc/Hz | Yes / No / Explain | | |
| 40 | BDC Frequency stability (constant temperature) | Better than $\pm 1 \times 10^{-7}$ after initial warm up | Yes / No / Explain | | |
| 41 | Rx System Primary power | 230 V 50 Hz AC +/- 10%, single phase | Yes / No / Explain | | |
| 42 | Rx Operating Temperature | -40 deg C to +20 deg C at Antarctica, 0 deg C to + 50 deg C for shadnagar | Yes / No / Explain | | |
| 43 | Rx Relative Humidity | 100% condensing | Yes / No / Explain | | |
| 44 | Redundancy LNA and BDC | 1:2 Redundant Configuration for LNA &BDC | Yes / No / Explain | | |

| | | | | | |
|----|--|--|--------------------|--|--|
| 45 | Switchover | Manual and Automatic changeover in case of fault for the LNA system. | Yes / No / Explain | | |
| 46 | M&C for all the sub-systems of the Receive chain | to be provided. | Yes / No / Explain | | |

Document : Antarctica TX &RX

4. ANTENNA SYSTEMS Base band system for Antarctica antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|-------|------------|-----------------------|--------|
| 1 | Compliance to section 4.4 of RFP | | - | | |
| 2 | The high-speed Modems & Baseband systems in 1:1 configuration (Single Modem) or 1:2 configuration (Dual Modem) should support QPSK, 8PSK, 16APSK, 32 APSK or any other higher order modulation schemes for establishing a data link with a minimum data rate of 1 Gbps. Forward Error correction codes with the features of selectable code rate and suitable coding techniques shall be included to achieve a data rate of 1 Gbps through the link. | | - | | |

| | | | | | |
|---|--|--|---|--|--|
| 3 | <p>High Speed Data communication system should include all the necessary systems such as Variable rate gateway element, accelerator, modems, protocol converters / routers, Data dividers/splitters/balancers, redundancy switching, etc to support 1 Gbps high speed data communication. Single modem or maximum of 2 Modems shall be utilized for achieving the data rate.</p> | | - | | |
| 4 | <p>This shall be done in both Tx and Rx over a satellite bandwidth of 500 MHz single transponder in RHCP polarization and a spacecraft EIRP of 63.0 dBW.</p> | | - | | |
| 5 | <p>Two-way communication services for M&C and return signal each at 10 Mbps data rate shall also be supported by the modem in 1:1 or 1:2 hot redundant configuration and capable of variable data rates, modulation schemes, forward error correction codes for effective bandwidth utilization. All the systems shall have Ethernet (LAN) interface for M&C.</p> | | - | | |

| | | | | | |
|---|--|--|---|--|--|
| 6 | The equipment will receive high bit rate data pertaining to Remote Sensing Satellite payload and low bit rate data pertaining to M&C of Ground Station. This system shall format, Multiplex and provide necessary interface to MODEM for uplink / downlink. The detailed format shall be worked out and provided in the quotation. | | - | | |
| 7 | This Equipment shall facilitate the following functions: Establish a 1 Gbps data link from Antarctica to Shadnagar with required redundancies in all the equipment. Either single or not more than 2 modems to be utilized for establishing the 1 Gbps link. | | - | | |
| 8 | The required Variable rate gateway elements, accelerator, modems, protocol converters / Routers, Data dividers/splitters/balancers, redundancy switching, etc to support 1 Gbps high speed data communication are to be provided by the vendor. | | - | | |
| 9 | Required Data balancers / dividers / splitters and any other equipment required for establishing the link to be considered with redundancies. | | - | | |

| | | | | | |
|----|---|---------------------------------------|--------------------|--|--|
| 10 | All the Baseband systems along with the Modem shall be in hot redundant configurations (1:1 or 1:2). | | - | | |
| 11 | In case of any online equipment failure, the system shall have capability to automatically switch over to the redundant system. | | - | | |
| 12 | Software required for formatting, routing and dividing / balancing the data to be transmitted shall be part of the system. | | - | | |
| 13 | The software shall be able to display and control the modem parameters and the data link parameters. It shall maintain the event log/reports of the baseband equipment for a minimum period of 3 years. All equipment shall support Monitor & Control features. | | - | | |
| 14 | All the required licenses for the Software and Firmware shall be provided. | | - | | |
| 15 | Vendor shall propose appropriate features of Baseband equipment and system configuration for effective satellite link and reliable operations. | | - | | |
| 16 | Specifications of MODEM | | - | | |
| 17 | Modulator | | - | | |
| 18 | IF Output frequency | 950-1950 MHz, step size 1KHz | Yes / No / Explain | | |
| 19 | Output level | 0 to -40dBm, settable in 0.5 dB steps | Yes / No / Explain | | |

| | | | | | |
|----|--|---|--------------------|--|--|
| 20 | Standards | DVB-S2 or better | Yes / No / Explain | | |
| 21 | Data Rate | Min. of 1 Gbps per unit (if single unit used), Min. of 500 Mbps per unit (if two units used), Independent transmit and receive data rate. | Yes / No / Explain | | |
| 22 | Modulation | QPSK, 8PSK, 16APSK, 32APSK and any other higher order modulation schemes to meet the Link data rate. | Yes / No / Explain | | |
| 23 | Forward Error Correction | Selectable code rates and suitable coding techniques to achieve the above Link data rate | Yes / No / Explain | | |
| 24 | Modulator input Data Interface | 10G Ethernet with backward compatibility to 1G. | Yes / No / Explain | | |
| 25 | Demodulator | | - | | |
| 26 | Input Frequency Band | 950-1950 MHz, step size 1 KHz | Yes / No / Explain | | |
| 27 | Input Dynamic Range | -48 dBm to -10 dBm | Yes / No / Explain | | |
| 28 | Threshold BER performance (as per the modulation schemes and the coding rates) | Less than or equal to 2.5 dB with respect to theoretical value. | Yes / No / Explain | | |
| 29 | Demod Output Data Interface | 10G Ethernet with backward compatibility to 1G. | Yes / No / Explain | | |
| 30 | M&C Interface | Ethernet | Yes / No / Explain | | |
| 31 | M&C parameters | Display the essential parameters of the Modem. | Yes / No / Explain | | |

Document : Ant Base band

5. ANTENNA SYSTEMS M&C systems and instruments for the above Antarctica antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|-------|------------|-----------------------|--------|
| 1 | Compliance to Section 4.5 of RFP | | - | | |
| 2 | The MCS shall facilitate the following functions | | - | | |
| 3 | Full-fledged station configuration management of the entire station equipment. | | - | | |
| 4 | Display the status and control the parameters of all the station equipments in GUI display. | | - | | |
| 5 | Both the Operational and Standby system shall be of latest version (H/W and OS) identical. | | - | | |
| 6 | Status and alarm monitoring of all the equipment with time tagged archival. | | - | | |
| 7 | Full function control of all the station equipment. | | - | | |
| 8 | Able to monitor and control the modem parameters and the data link parameters. | | - | | |
| 9 | Redundancy management wherever applicable. | | - | | |
| 10 | Time tagged recording of the station operations as a log file. | | - | | |
| 11 | Archival and play back of station log file data on request. It shall be possible to have retrieval of equipment wise status / alarm history. | | - | | |
| 12 | Station performance trend analysis (EIRP stability, Frequency stability, any parameter monitoring, etc.). | | - | | |

| | | | | | |
|----|--|--|---|--|--|
| 13 | All systems / sub-systems shall be controllable via Ethernet interface. | | - | | |
| 14 | All sub-systems shall have full-fledged Remote / Local control provision. | | - | | |
| 15 | Remote shall mean control via MCS and local shall mean control via the respective equipment front panel or controller front panel. | | - | | |
| 16 | To cater to future augmentation additional spare Ethernet I/O ports (25% extra) shall be provided at the MCS. | | - | | |
| 17 | On recovery of MCS following its failure, the present existing station configuration shall be retained. | | - | | |
| 18 | All the required licenses for the Software and equipment drivers shall be provided. | | - | | |
| 19 | Upgrades required for the Software and the equipment drivers shall be supported during the standard warranty and the CAMC period. | | - | | |
| 20 | Compliance to Section and subsections of 4.6 of RFP | | - | | |
| 21 | Instruments like Spectrum Analyzer and Power meter with the required Sensors need to be supplied. | | - | | |
| 22 | The units shall have Ethernet (LAN) port for remote M&C. | | - | | |

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| 23 | The spectrum analyzer shall be configured for real time monitor of received beacon signal and also able to monitor the Modem input and output IF levels. The power meter shall be configured for real time transmit power monitor at feed input through coupled port. | | - | | |
| 24 | The Spectrum Analyzer and power meter data shall be displayed on M&C with provision of data logging of critical and selectable parameters. Provision for retrieval and transfer of log data for analysis to be made. | | - | | |
| 25 | Calibration certificates with validity for all the test and measuring instruments shall be provided. The broad specifications of the instruments are as given below. | | - | | |
| 26 | Spectrum Analyzer specifications | | - | | |
| 27 | High frequency spectrum Analyzer: | 100 KHz to 31 GHz | Yes / No / Explain | | |
| 28 | Resolution Bandwidth Sequence: | 1 /3/10 | Yes / No / Explain | | |
| 29 | Resolution Bandwidth Range | 100 Hz to 3 MHz | Yes / No / Explain | | |
| 30 | Video Bandwidth sequence | 1-3-10 | Yes / No / Explain | | |
| 31 | Video bandwidth range | 100 Hz to 1 MHz | Yes / No / Explain | | |
| 32 | Phase noise for 10 KHz offset from CW signal | better than -100 dBc/Hz @10GHz | Yes / No / Explain | | |
| 33 | Displayed average noise level | Better than -100 dBm | Yes / No / Explain | | |

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| 34 | Maximum Input level | +10dBm | Yes / No / Explain | | |
| 35 | Power meter | | - | | |
| 36 | -70 dBm to +10 dBm | | - | | |
| 37 | 10 MHz to 31 GHz frequency range | | - | | |
| 38 | Calibration provision | | - | | |
| 39 | Front panel display or on any pc | | - | | |
| 40 | Remote interface | | - | | |
| 41 | Compatible sensor and cable | | - | | |

Document : Ant M&C

6. ANTENNA SYSTEMS Radome for the above Antarctica antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---|---|--------------------|-----------------------|--------|
| 1 | Compliance to section 4.7 of RFP | | - | | |
| 2 | Radome shall be provided with following features and specifications | | - | | |
| 3 | Material | To suit Structural strength, rigidity, to meet insertion loss, wind speed and other specs given below | Yes / No / Explain | | |
| 4 | Size | To suit the antenna diameter | Yes / No / Explain | | |
| 5 | Temperature | -40 deg C to + 20 deg C | Yes / No / Explain | | |
| 6 | Wind Velocity | 60 Kmph Operational, 250 Kmph survival | Yes / No / Explain | | |

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| 7 | Solar Radiation / heat effect | To be stable for the above temperature without warping or peeling of external layer | Yes / No / Explain | | |
| 8 | Seal | All Radome Panels to be water tight sealed using silicon Gasket | Yes / No / Explain | | |
| 9 | Hardware | To withstand snow, wind and saline environment | Yes / No / Explain | | |
| 10 | Maintenance | Provision for snow cleaning on the surface | Yes / No / Explain | | |
| 11 | Panels | Easily removable for repair & replacement. The radome should have facility to separate/assemble the panels for ease of installation. | Yes / No / Explain | | |
| 12 | Hydrophobic Coating to prevent accumulation of ICE formation | | - | | |
| 13 | Rope for clearing the Ice formation if any. | | - | | |
| 14 | Interior lighting system | | - | | |
| 15 | Necessary spares for radome. | | - | | |
| 16 | Radome Installation: | | - | | |
| 17 | The Vendor shall be responsible for installation of the antenna and radome. | | - | | |
| 18 | The Vendor shall comply with local safety and environmental rules at the site. | | - | | |
| 19 | The Vendor shall ensure that the site is kept clean during installation and that all garbage will be disposed off in NRSC/NCPOR furnished dumpster after completion of the installation. | | - | | |

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| 20 | NRSC / NCPOR will provide the crane and other lift equipment as per RFP Section-5, point-8. | | - | | |
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Document : Ant Radome

7. ANTENNA SYSTEMS 5th year post warranty CAMC for the Shadnagar Antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-------------------------------------|-------|------------|-----------------------|--------|
| 1 | Specifications are same as SI. No 8 | | - | | |

Document : Shad CAMC

8. ANTENNA SYSTEMS Packaging ,Transportation, Program management, Installation, Testing, Training and Documentation for the above Antarctica antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|-------|------------|-----------------------|--------|
| 1 | On the part of NRSC, the following support / facilities shall be made available to the prospective vendor. | | - | | |
| 2 | Antarctica Antenna: Single point 3 phase, four Wire (3P+N) AC power supply as input to the vendor supplied UPS and for non-technical loads. AC power is only Utility Power (Non-UPS) 230V±5% single phase, 400V±5% three phase, 4 Wire, 50Hz±5%. | | - | | |

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| 3 | NRSC Shadnagar Antenna: Single point 3 phase, four Wire (3P+N) AC power supply for the antenna drive unit and the racks. AC power includes both Technical Power (UPS) & Utility Power (Non-UPS) 230V±5% single phase, 400V±5% three phase, 4 Wire, 50Hz±5%. | | - | | |
| 4 | The feeder point will be about 700 mtrs approx from the proposed location of antenna installation at Antarctica and about 1000 mtrs at NRSC, Shadnagar. Supply & laying of power cable from feeder panel to the terminal is the scope of vendor. | | - | | |
| 5 | Vendor shall be responsible for Tapping the power from the feeder point (Technical Power and Utility Power), distribution in the proposed antenna and for all the equipments. | | - | | |
| 6 | Antarctica Antenna: During installation phase, Non-UPS supply will be made available for preliminary tests of all the station equipments including antenna drive systems. After the satisfactory completion of the preliminary tests, UPS (Un-Interruptible Power Supply) is to be energized by the vendor. Max of 35 KVA Non-UPS power supply will be made available for the whole system. | | - | | |

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| 7 | <p>NRSC Shadnagar Antenna: During installation phase, Non-UPS supply will be made available. Once preliminary tests of all the station equipments including antenna drive systems are satisfactorily completed, Un-Interruptible Power Supply will be made available.</p> | | - | | |
| 8 | <p>Satellite Transponder for carrying out the Required RF Testing and Commissioning of the link. Provision of Trench from the antenna to the control room in Shadnagar will be the responsibility of NRSC.</p> | | - | | |
| 9 | <p>The following are the cranes / other lifting equipment available at Bharathi, Antarctica. Any other equipment required for the installation of antenna, radome and the pile foundation are to be arranged by the vendor. Mantis crane CTC-300EX Mantou bucket lift MT-X 1440 A E3 Bulldozer BD-50 Excavator BE-71 TATA Xenon- XT truck Piston Bully (4 Nos)</p> | | - | | |

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| 10 | <p>Compliance to Section 10 of RFP Generally, the Indian Ship to Antarctica leaves from Cape Town during Oct / Nov every year; it takes about 2 weeks to reach the site by ship, it is essential to adhere to the time schedules. The consignment loading at Cape Town may take about one week. Sufficient storage space shall be made available for the consignment at Cape Town.</p> | | | | |
| 11 | <p>The full project/installation at Antarctica is expected to be accomplished as per 2a or 2b given below. 2. a) The Pile foundation for antenna platform, radome and cable tray work shall be completed in 2023 expedition (Oct – Nov). The delivery of systems for Antarctica shall be done on or before 30th September, 2024 at Cape Town. After supply, the installation and commissioning for the Antarctica system shall be completed during 2024 summer expedition (from November 2024 to February 2025). OR</p> | | | | |

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| 12 | 2 b) Delivery, installation and commissioning of systems for Antarctica system along with Pile foundation for antenna platform, radome and the cable tray work shall be completed during 2024 summer expedition (from November 2024 to February 2025). The delivery of systems for Antarctica shall be done on or before 30th September, 2024 at Cape Town. | | - | | |
| 13 | The delivery for Shadnagar antenna shall be completed on or before 31st Aug 2024 and the antenna foundation and installation to be completed by 31st Dec 2024. The final link testing, acceptance and performance demonstration is by including both antenna systems. | | - | | |
| 14 | Detailed activity and time schedules for each of the activities till delivery of the consignment at cape Town, South Africa, shall be provided by the vendor at the time of submission of the proposals. | | - | | |
| 15 | The schedules for the following mandatory Reviews and Milestones shall be clearly mentioned by the vendor while submitting the quotation. | | - | | |
| 16 | Preliminary Design Review (PDR) at NRSC: To review the soundness of the design specifications, Work plans and Schedules. | | - | | |

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| 17 | <p>The NRSC / ISRO reserves the right at any time to modify the Quantitative Requirement, Specifications, patterns or SOFTWARE requirements relating to the work covered by the contract. The Supplier shall inform the Department, within 15 days of any objection he has to the modifications required.</p> | | - | | |
| 18 | <p>Critical design review (CDR) at NRSC: To critically review, evaluate and finalize the design aspects, firm up the details of equipment to be supplied, and to agree upon the subsequent Test and Evaluation procedures.</p> | | - | | |
| 19 | <p>Factory Acceptance testing (FAT): NRSC shall participate in the Factory acceptance test for all the major Systems, to review the System/Subsystem performance at the factory premises prior to shipment. One antenna meant for the Antarctica system shall be fully assembled and tested as part of FAT and shall include satellite tracking. The FAT plan and procedures shall be sent to NRSC not later than 3 weeks before FAT.</p> | | - | | |

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| 20 | Inspection report of the factory test results along with analysis shall be submitted to NRSC. Schedule for the delivery of the systems at Cape Town, South Africa and NRSC, Shadnagar. | | - | | |
| 21 | Installation & commissioning schedule at Antarctica and at NRSC, Shadnagar. Demonstration of the communication link through Ka band satellite and the Remote Control & Monitoring of Antarctica terminal. | | - | | |
| 22 | On-site acceptance Testing & Training: On-site acceptance Testing & Training at Antarctica & NRSC, Shadnagar. The Vendor shall provide training at Antarctica and NRSC, Shadnagar to the engineers identified by NRSC and also shall provide on-line support for maintenance on 24 x 7 basis. | | - | | |
| 23 | The Acceptance test shall be conducted at Antarctica and Shadnagar, NRSC simultaneously for data transfer and M&C in the presence of NRSC personnel. | | - | | |
| 24 | Demonstration of consistent performance of the communication link with sufficient link margin for 1 Gbps data rate from Antarctica and remote operations from NRSC shall be ensured for a period of 5 days for final acceptance. | | - | | |

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| 25 | Any other reviews found necessary and essential during the execution of the works shall be organized through mutual discussions and agreement. The end user shall be involved at all stages, to ensure completeness of the project in terms of their technical and qualitative requirements. | | - | | |
| 26 | Terms & Conditions: Technical: All the systems quoted in the proposal shall support for 24x7 continuous operations without any deviation in the performance. | | - | | |
| 27 | The proposal must consist of two parts. Part I: Techno commercial Proposal and Part II: Price Proposal. | | - | | |
| 28 | No Cost/Financial information is to be included in the Techno Commercial Proposal. Violation of the same will lead to disqualification of the bid. | | - | | |
| 29 | All the equipment catalogues/datasheets/manuals describing the specifications, functional as well as operational details to be submitted along with the bid. | | - | | |

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| 30 | A detailed Clause-by-Clause/point-by-point Compliance Statement addressing each and every functional requirement/specific ation mentioned shall be submitted. Non-compliance if any shall be clearly marked, with reasons thereto highlighted. | | - | | |
| 31 | The Antenna system shall be designed and constructed for a minimum operating life of 15 years. | | - | | |
| 32 | The full project/installation at Antarctica is expected to be accomplished as per 8a or 8b given below. 8. a) The Pile foundation for antenna platform, radome and cable tray work shall be completed in 2023 expedition (Oct – Nov). The delivery of systems for Antarctica shall be done on or before 30th September, 2024 at Cape Town. After supply, the installation and commissioning for the Antarctica system shall be completed during 2024 summer expedition (from November 2024 to February 2025). OR | | - | | |

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| 33 | 8 b) Delivery, installation and commissioning of systems for Antarctica system along with Pile foundation for antenna platform, radome and the cable tray work shall be completed during 2024 summer expedition (from November 2024 to February 2025). The delivery of systems for Antarctica shall be done on or before 30th September, 2024 at Cape Town. | | - | | |
| 34 | Shadnagar antenna delivery shall be completed on or before 31 Aug 2024 and the antenna foundation and installation to be completed by 31st Dec 2024. The final link testing, acceptance and performance demonstration is by including both antenna systems. | | - | | |
| 35 | Standard Warranty shall be for 3 years. Post standard warranty additional comprehensive AMC for 5 years shall be quoted separately. | | - | | |
| 36 | The Bidder should provide detailed Link Budget calculations based on the following Satellite specifications and the data rate requirements. a.Satellite Orbital Location: 42.5 deg E b.Transponder BW (MHz): 500 MHz single transponder. c.EIRP Available [dBW]: 63.0 d.G/T (deg/K): 20.5 dB/deg K e.Available SFD [dBW/m2]: - 100+/- 2 | | - | | |

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| 37 | As most of the RF equipments are mounted in the elevation hub, proper cooling / heating arrangement shall be done for maintaining the hub temperature within the operating range. The Cooling/ heating system shall be in 1:1 redundant configuration. | | - | | |
| 38 | The Efficiency metrics of all the equipments (in terms of Quality, Performance, Reliability, Availability, MTBF, MTRR, etc) is to be provided. | | - | | |
| 39 | The Vendor shall ensure that the site is kept clean during installation and that all garbage will be disposed off as per mandatory requirements at Antarctica. | | - | | |
| 40 | The systems will be installed close to the coastal area in Antarctica, hence necessary saline environment protection shall be provided to the outdoor units for proper functioning of the station over the desired life of at least 15 years in the Antarctica environment. | | - | | |
| 41 | The vendor should provide the following details along with the proposals: Detailed project management plan with project schedules / milestones to be provided. | | - | | |
| 42 | System installation, testing and commissioning plan & Acceptance Test Plan for FAT and On-site. | | - | | |

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| 43 | Modality of maintenance support on 24 X 7 basis shall be as per section-9. | | - | | |
| 44 | All Systems, Equipments, Components & other deliverable items under the scope of supply shall be of the latest state of art technology and Commercially off the Shelf (COTS) equipment. | | - | | |
| 45 | Make and model of each of the quoted units to be clearly mentioned in the technical bid. Suitable protection devices must be employed so that failure of any component or unit does not entail failure of other components or systems in the chain. | | - | | |
| 46 | Cabinets and Racks required for the implementation of the system shall be provided. Racks shall be of Standard 19-inch type and 42 U height. | | - | | |
| 47 | Vendor shall mandatorily quote for both the ground terminals (1 no at Bharti Station, Antarctica & 1 no at NRSC, Shadnagar) and award of contract will be based on evaluation of consolidated offer. Partial bid will not be accepted. | | - | | |
| 48 | NRSC reserves the right to order for the whole system or for a part of the system given in the RFP and also has the right to adopt or reject the offer without giving justifications or reasons whatsoever. | | - | | |

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| 49 | Commercial: Vendor shall fill in the price bid as per specifications/requirements in the RFP. | | - | | |
| 50 | Vendor shall also note that wherever item quantity quoted in "lot/set", breakup of items with quantity and unit price to be provided along with price bid. | | - | | |
| 51 | The proposals (Technical and Price bids) submitted must be valid for 180 days from the tender due date. | | - | | |
| 52 | The commercially lowest offer will be determined after considering the cost of all systems / services including CAMC, taxes, etc at both places. | | - | | |
| 53 | <p>Payment Terms Supply :</p> <p>70% of supply value (i.e Sl. No 1 to 5 and Sl. No 9 to 12 of annexure 2- price bid format) shall be paid after supply of all the systems / items at both places.</p> <p>20% of supply value (i.e Sl. No 1 to 5 and Sl. No 9 to 12 of annexure 2- price bid format) and 90% of Sl. No 6 and 7 & Sl. No 13 and 14 of annexure 2 -price bid format shall be paid after successful completion of installation, onsite acceptance, training and documentation at both places.</p> | | - | | |

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| 54 | <p>Remaining 10% will be paid after the completion of standard warranty. Payment Terms CAMC : Pro-rata half yearly payment against submission of bills/invoice, shall be made after satisfactory completion of each half year certified by focal point and approved by higher authority for having rendered the service satisfactorily during CAMC, to release the payment.</p> | | - | | |
| 55 | <p>Interested vendors can be present at NRSC during opening of Technical bids. Technical bids will be opened in the presence of the attended vendors or their authorized representatives. Authorized representatives must carry a proper identification proof and an authorization letter. The commercial bids will be opened in the presence of the attended vendors or their authorized representatives on a date that will be notified individually to the vendors whose technical bids are found to be suitable.</p> | | - | | |

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| 56 | <p>Suspension clause: Department may notify the Supplier to suspend performance of any or all of his obligations under the Contract. Such notice will specify the reasons for suspension and the effective date of suspension. Supplier there upon shall suspend the performance of such obligations until ordered in writing to resume performance of Contract by Department.</p> | | - | | |
| 57 | <p>Cancellation clause: The Department shall have the right at any time to cancel a contract either wholly or in part by giving written notice by registered mail. From the time of receipt of the written notice the Supplier shall undertake to observe the instructions of the Department as to the winding up of the contract both on his own part and on the part of his sub-suppliers.</p> | | - | | |

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| 58 | <p>Acceptance and Rejection Clause: On completion of the work or part of the work as specified in the contract, the representative of the Department referred to, shall check as soon as possible, but in any event within the month of notification of readiness for acceptance, which the work performed complies with the contract requirements as regards quantity and quality.</p> | | - | | |
| 59 | <p>In the event of rejection of any of the articles, whereby the Supplier feels himself aggrieved, he may within eight days of the receipt of notification of rejection and before such articles have been removed from the place of inspection, give the Department notice of objection. Such objection shall be considered by a Board of Appeals of the Department. The Department shall, without prejudice to the arbitration clause in the contract, take a decision upon presentation of the Board's findings.</p> | | - | | |
| 60 | <p>On completion of tests, the members of the Inspection Organisation of the Department or Inspection agency appointed by Department shall prepare a report, which must be countersigned by the Supplier.</p> | | - | | |

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| 61 | <p>All communications should be addressed to: Head, Purchase and Stores Division / SPSO Shadnagar National Remote Sensing Centre, ISRO, Balanagar, HYDERABAD, Telangana, 500 037, INDIA Phone : +91 40 2388 4065, 2388 4066(NRSC, Balanagar) Phone : 08542 225070, 225071, 225072 & 225073(NRSC, Shadnagar) Fax : +91 40 2387 8695 E-mail : hpsd@nrsc.gov.in, purchase_unit2@nrsc.gov.in.</p> | | | | |
| 62 | <p>PRE BID MEETING: Pre-bid meeting between NRSC and the prospective vendors interested in submitting proposals will be held at NRSC, Shadnagar. During this meeting, vendors can seek clarifications required by them to generate proposals.</p> | | | | |
| 63 | <p>If required, foreign nationals can participate in the pre-bid meeting through virtual mode. Prior information of the details of the persons to be informed to NRSC.</p> | | | | |
| 64 | <p>NRSC strongly recommends participation of vendors in pre-bid meeting for clarity on Technical and commercial aspects.</p> | | | | |

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| 65 | Participation by the vendors in pre-bid meeting scheduled is at their own cost. Those who wish to participate shall send their willingness regarding their participation with name, position, address and contact details at least four days in advance before the pre-bid meeting. | | - | | |
| 66 | Foreign nationals must indicate their nationality and passport details. A scanned copy of the valid passport along with the valid visa (Business or Conference) should be sent to The Head, Purchase and Stores Division, Purchase Unit-2, National Remote Sensing Centre, ISRO, Balanagar, Hyderabad-500037, Telangana, India. Email: hpsd@nrsc.gov.in, purchase_unit2@nrsc.gov.in. | | - | | |
| 67 | Any change in venue for pre-bid meeting will be displayed in GEM / E procurement portal. | | - | | |
| 68 | The addendum/corrigendum if any, after the pre-bid meeting shall be published in GEM / E procurement portal. The bid submitted by the vendors must comply with the RFP along with the addendum/corrigendum published. | | - | | |

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| 69 | Vendor shall provide technical discussion on the proposed system at NRSC, Shadnagar premises during the pre-bid meeting. | | - | | |
| 70 | Vendor eligibility criteria: System Integrators (SI) or Original Equipment Manufacturers (OEMs) or their authorized representatives with following eligibility criteria are invited to bid for the project. The bids submitted by the System Integrators/OEMs not meeting these eligibility criteria shall not be considered for evaluation. | | - | | |
| 71 | The Bidder shall be an Original Equipment Manufacturer (OEM) or an authorized Vendor/ Integrator for antenna system, and shall produce an undertaking from OEM that the bidder is an authorized entity to quote for this tender and will provide support and spares directly for the offered system and also that the offered system will be supported by the OEM for the period of minimum 10 years. The authorization shall be tender specific and addressed to the tender issuing authority. | | - | | |
| 72 | Vendor shall be able to provide technical discussion on the proposed system at NRSC, Shadnagar during the technical evaluation period. | | - | | |

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| 73 | <p>With reference to the Bid closing date, the Bidder or OEM shall have an experience of 5 years minimum in design, supply, installation and commissioning of ground stations with antenna of 7.5 m and above diameter for satellite communication. Bidder shall provide the details of purchase orders, completion certificates and completion schedule with relevant references / contact details, as proof for the above (5 years) experience.</p> | | - | | |
| 74 | <p>Submission of purchase order is not adequate to substantiate the experience. Satisfactory completion certificate from the customer is a must to substantiate the experience.</p> | | - | | |
| 75 | <p>The bidder or OEM must submit customer satisfaction certificate with respect to the successful completion of installation and commissioning of at least two numbers of 9.0 m or above size Monopulse auto track antenna in Ka band frequencies.</p> | | - | | |

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| 76 | The bids not containing the successful completion certificate obtained from the customer in respect of installation and commissioning of at least two numbers of 9.0 m or above size auto track antenna system shall be treated as non-compliance and offer shall be rejected. | | - | | |
| 77 | Customer address and contact numbers are to be mentioned in the certificate for verification of bidder claim with regard to successful completion of the project. Experience with only step track/program track is treated as not compliant. With regard to this the bidder need to mandatorily fill up the following table with relevant information failing which the bid will be rejected. Filling up table -7 as per RFP. | | - | | |
| 78 | The vendor shall provide On-site Training after installation to atleast 5-members identified by NRSC at NRSC Shadnagar as well as at Antarctica. During training vendor has to provide training material both hard and soft copies to all participants. The training shall focus on Overview of the system, configuration and its functionality, interfaces, Operational procedures, Preventive and corrective maintenance, etc. | | - | | |

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| 79 | Two sets of Hard Copies and One set of Soft Copy of project execution document and system configuration document (containing all the necessary calculations and analysis reports needed for system engineering and design) shall be submitted to NRSC within one month from the date of award of contract. | | - | | |
| 80 | Following documents shall be submitted subsequently at different stages of project: Interface Control document & Preliminary Design Review Document Critical Design Review Document & Monthly progress reports. | | - | | |
| 81 | Minutes of meetings, Factory Acceptance Test (FAT) plan Document & FAT test result reports with analysis if any. | | - | | |
| 82 | Site Acceptance Test (SAT) plan Document, Training Manual, QA Reports wherever applicable, Calibration certificates wherever applicable. | | - | | |
| 83 | Installation Procedures, Operations and Maintenance Manual for all sub systems. | | - | | |

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| 84 | Two sets of Hard copies and a soft copy of operations & maintenance manuals for the overall system as well as each of the systems / subsystems shall be supplied at the time of delivery. The documentation shall include configuration, design details and drawings. | | - | | |
| 85 | The Maintenance Manual shall contain all the necessary information to enable NRSC Engineers or vendor's representatives to carry out the preventive and corrective maintenance whenever required. | | - | | |
| 86 | The Configuration Item list shall include a complete list of all deliverables (hardware, Software, Firmware, OS, Documents, etc) with specification of Version Nos. for each of the items. All the documents shall be approved by NRSC. | | - | | |
| 87 | The required Licenses for all the Softwares, Firmwares, etc shall be supplied by the vendor. | | - | | |

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| 88 | Packing and Transportation: NCPOR (National Centre for Polar and Ocean Research), Ministry of Earth Sciences, Govt. Of India Headquartered in Goa, India is the nodal agency responsible for carrying out the Indian expedition to Antarctica every year. The Antarctica expedition starts from Cape Town, South Africa and reaches Bharti Station at Antarctica. | | - | | |
| 89 | The transportation of the consignment for Antarctica shall be done during the expedition subsequent to the delivery of the systems. A very close liaison is warranted to transport all the necessary antenna systems and subsystems to Antarctica with the required formalities (customs, etc). | | - | | |
| 90 | The Vendor will be responsible for loading of the consignment into the ship at Cape Town, unloading the same at Antarctica and also for Movement of the consignment from the Ship to the Antenna site. | | - | | |
| 91 | NRSC / NCPOR will provide the basic infrastructure like crane, Material Handling equipment for transportation of the consignment from the ship to the Antenna site. | | - | | |

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| 92 | <p>The vendor or his representative shall accompany the consignment during transportation by ship; closely interact with the liaison officer identified by NRSC for all the requirements. Logistics support like Accommodation, Food, etc shall be provided at Antarctica.</p> | | - | | |
| 93 | <p>All the antenna subsystems / components are to be provided with adequate packing. Any damage during transportation/installation to antenna parts or site facilities shall be rectified / replaced in full by the vendor at his own risk and cost.</p> | | - | | |
| 94 | <p>Information on Size, volume, weight and number of packages for transportation to Antarctica has to be provided by the vendor along with the quotation.</p> | | - | | |
| 95 | <p>Each container including its own weight should not exceed 20MT. Each package however shall not exceed 4MT for transportation from ship to construction site in Antarctica.</p> | | - | | |

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| 96 | <p>Safety: The safety of working personnel and the Antenna System with all equipments at Antarctica & NRSC, Shadnagar shall be the responsibility of the vendor. Vendor has to follow all the statutory requirements safety guidelines and provide needed safety equipments as per Antarctica Charter.</p> | | - | | |
| 97 | <p>Vendor shall ensure that the site is kept clean during installation and that all Garbage will be disposed off in the dumpster furnished after completion of the installation.</p> | | - | | |
| 98 | <p>DISCLOSURE AND USE OF INFORMATION BY THE SUPPLIER:</p> | | - | | |
| 99 | <p>If the documents supplied by the Dept are marked 'restricted use' the Supplier shall take all necessary steps to ensure that the requirements of the contract or any specification, plan, drawing, pattern, sample or information supplied by, or on behalf of, the Dept in connection therewith shall not be disclosed to any person other than a person employed or engaged by the Supplier, whether under subcontract or otherwise, for the performance of the contract.</p> | | - | | |

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|-----|---|--|--|--|--|
| 100 | Supplier shall guarantee that all information and data received during execution of Contract from Department shall be classified as confidential within the meaning of the Official Secrets Act and will not be divulged to any third party without prior written permission of Department. All drawings & documents shall be returned after execution of work. | | | | |
|-----|---|--|--|--|--|

Document : Ant program management

9. ANTENNA SYSTEMS Civil works for Ka Band antenna at Bharathi Station Antarctica (Antenna foundation & cable trays and electrical works including UPS systems)

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---|-------|------------|-----------------------|--------|
| 1 | CIVIL | | - | | |
| 2 | The foundation of the Shadnagar antenna and the Pile foundation along with the Installation of Radome for the Antarctica antenna shall be the responsibility of the vendor. | | - | | |
| 3 | The final drawings of the foundation, compatible to the Antenna System shall be shared with NRSC. | | - | | |
| 4 | Provision of cable trays from the antenna to the control room in Antarctica shall be done by Vendor in coordination with NRSC/ NCPOR. | | - | | |

| | | | | | |
|---|--|--|---|--|--|
| 5 | The length of the cable trays from the antenna to the control room at Antarctica will be about 700 mtrs. approx. | | - | | |
| 6 | Information about Antarctica Pile foundation: Bharati station is in rocky strata which are sedimentary rock layers bounded by two stratification planes, for this micro piling of 7 to 8 meter depth was done and checked the rock cores. On this the station is erected with 86 steel pillars grounded with GEWI piles and they are capable of sustaining the wind speed up to 250 Km/hr. | | - | | |
| 7 | For the antenna systems DRS: 2 Nos. and DCS: 1 Nos., micro piling is done for a depth of 4-5 meters and the antenna is installed on 8 Nos. of I-section which shares a load of less than 1 ton per I-section beam. Cable trays and Antenna platform should be about 4 ft (approx.) above ground level. | | - | | |
| 8 | ELECTRICAL | | - | | |

| | | | | | |
|----|---|--|---|--|--|
| 9 | Power requirement for the Antarctica antenna & equipments is to be calculated and appropriate UPS system for the same need to be supplied and installed. It should be in 1:1 redundant configuration and have sufficient margin for normal 24x7 operations. | | - | | |
| 10 | The tapping of power from customer's source is the responsibility of the vendor, without loading the station power system. | | - | | |
| 11 | The nominal voltage of the systems shall be 400V 3 phase / 230V single phase, frequency is 50 Hz. | | - | | |
| 12 | Internal distribution for the supplied equipment including racks, distribution panels and power cables shall be the responsibility of the vendor. | | - | | |
| 13 | All the cables and wires shall be of ISI or international standard. | | - | | |
| 14 | All equipments shall be designed to operate with Single-phase Primary Power rating of 230 V, 50 Hz \pm 10% or 3 phase 400 V, 50 Hz \pm 10% | | - | | |
| 15 | To protect the connected equipment from any damage owing to lightning or other power surges, the mains inlet cable shall be equipped with suitable surge suppressors and over/under voltage protection devices. | | - | | |

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|----|--|--|---|--|--|
| 16 | A complete grounding arrangement for lightning protection, safety of personnel, and suppression of radio frequency interference is to be provided. The value of Earth resistance must be 10 Ohms maximum for lightning protection and less than 1 Ohm for system grounding. There must be isolation between the lightning and power grounding systems. The provision of Earth pits wherever necessary shall be the responsibility of vendor. | | - | | |
|----|--|--|---|--|--|

Document : Ant civil

10. ANTENNA SYSTEMS 1st year post warranty CAMC for Ka Band antenna at Bharathi Station Antarctica

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|-------|------------|-----------------------|--------|
| 1 | CAMC for 5 Years after Standard Warranty | | - | | |
| 2 | The CAMC is planned for a period of 5 years after standard warranty. On-site Comprehensive Annual Maintenance Contract (CAMC) after the expiry of standard warranty period must be quoted separately in the Price Bid. | | - | | |

| | | | | | |
|---|---|--|---|--|--|
| 3 | During the CAMC period, all the Systems and Sub-systems shall be maintained with an uptime of 99 %. If the uptime as specified is not maintained, the following down-time charges will be levied. | | - | | |
| 4 | A total Down time of 4 Days Max. per year is permissible. | | - | | |
| 5 | Over and above 4 days down time, down time compensation at the rate of 0.25% per day of one-year CAMC amount shall be levied subject to a maximum of 10% of annual CAMC value. | | - | | |
| 6 | Preventive Maintenance (Antarctica and Shadnagar) | | - | | |
| 7 | Preventive Maintenance of the systems is to be carried out every six months for the systems at Shadnagar and in coordination with the Antarctica staff for the systems at Antarctica. | | - | | |
| 8 | On-Line support (Antarctica and Shadnagar) | | - | | |

| | | | | | |
|----|--|--|---|--|--|
| 9 | <p>The vendor shall provide on-line support on 24x7 basis for system maintenance in case of any breakdown. Vendor shall come to NRSC, Shadnagar to access and guide the personnel/systems at Antarctica for more details and maintenance. In case of any failure in the Shadnagar systems, the failure needs to be rectified by deploying a service Engineer.</p> | | - | | |
| 10 | <p>Corrective/Breakdown Maintenance (Antarctica and Shadnagar)</p> | | - | | |
| 11 | <p>The following procedure shall be followed during the CAMC period.</p> | | - | | |
| 12 | <p>Antarctica: In case of any failure, the spares maintained by the vendor at Antarctica shall be used to make the system operational and the same shall be replenished by the vendor in the next expedition, without any additional charges to NRSC/ISRO. Vendor shall come to NRSC, Shadnagar to access and guide the personnel/systems at Antarctica for system access and quick maintenance.</p> | | - | | |

| | | | | | |
|----|--|--|---|--|--|
| 13 | In case of any equipment failure at Antarctica, the equipment will be shipped to Cape Town and the vendor needs to collect the same and after repair or replacement equipment to be handed over at Cape Town for shipping to Antarctica. | | - | | |
| 14 | Shadnagar: In case of any failure, the vendor shall deploy a service Engineer along with the spares (maintained by the vendor) to attend to the problem at Shadnagar and make the system operational to maintain an uptime of 99%. | | - | | |

Document : Ant CAMC

11. ANTENNA SYSTEMS 2nd year post warranty CAMC for Ka Band antenna at Bharathi Station Antarctica

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-----------------------------------|-------|------------|-----------------------|--------|
| 1 | Specifications are same as S No 8 | | - | | |

Document : Ant CAMC

12. ANTENNA SYSTEMS 3rd year post warranty CAMC for Ka Band antenna at Bharathi Station Antarctica

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---------------|-------|------------|-----------------------|--------|
|-------|---------------|-------|------------|-----------------------|--------|

| | | | | | |
|---|--------------------------------------|--|---|--|--|
| 1 | Specifications are same as Sl. No. 8 | | - | | |
|---|--------------------------------------|--|---|--|--|

Document : Ant CAMC

13. ANTENNA SYSTEMS 4th year post warranty CAMC for Ka Band antenna at Bharathi Station Antarctica

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|------------------------------------|-------|------------|-----------------------|--------|
| 1 | Specifications are same as SI No 8 | | - | | |

Document : Ant CAMC

14. ANTENNA SYSTEMS Ka Band antenna System at Shadnagar with 3 years standard warranty

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---|-------|------------|-----------------------|--------|
| 1 | Specifications are same as mentioned in Sl. No 1 (Ka band antenna System at Bharathi station Antarctica with pile foundation) and meet the criteria's mentioned in RFP Scope of project | | - | | |

Document : Shad foundation

15. ANTENNA SYSTEMS Transmit and Receive system for the above Shadnagar Antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---------------|-------|------------|-----------------------|--------|
|-------|---------------|-------|------------|-----------------------|--------|

| | | | | | |
|----|--|--|--------------------|--|--|
| 1 | Specifications are same as mentioned in SI.No 2 (Transmit and Receive system for the Antarctica antenna) and the following | | - | | |
| 2 | Specifications of 1:2 Ka band D/C for LEO data acquired directly through IDRSS (For Shadnagar only) | | - | | |
| 3 | Input RF Frequency | 17.7 to 21.2 GHz | Yes / No / Explain | | |
| 4 | Output IF Frequency | 2400 MHz +/- 500 MHz (Multiple BDCs or LO tunability to cover the complete band) | Yes / No / Explain | | |
| 5 | Input Connector | Compatible with LNA or Switching unit | Yes / No / Explain | | |
| 6 | Output Connector | SMA(F) 50 Ohm | Yes / No / Explain | | |
| 7 | Gain | 30 dB (Min) | Yes / No / Explain | | |
| 8 | Gain Stability (constant temperature) | +/- 0.5 dB Max / 24 hrs | Yes / No / Explain | | |
| 9 | Spurious | Signal related: better than - 60 dBc, Signal Independent: better than - 72 dBm | Yes / No / Explain | | |
| 10 | Image Rejection | Better than 60 dB | Yes / No / Explain | | |
| 11 | Frequency stability (constant temperature) | Better than $\pm 1 \times 10^{-7}$ after initial warm up | Yes / No / Explain | | |
| 12 | Phase Noise (better than) | | - | | |
| 13 | 100 Hz | -70 dBc/Hz | Yes / No / Explain | | |
| 14 | 1 KHz | -82 dBc/Hz | Yes / No / Explain | | |
| 15 | 10 KHz | -90 dBc/Hz | Yes / No / Explain | | |
| 16 | 100 KHz | -94 dBc/Hz | Yes / No / Explain | | |
| 17 | Primary power | 230 V 50 Hz AC $\pm 10\%$, single phase | Yes / No / Explain | | |

| | | | | | |
|----|-----------------------|---|--------------------|--|--|
| 18 | Operating Temperature | 0° to +50° C | Yes / No / Explain | | |
| 19 | Redundancy | 1:2 Redundant Configuration | Yes / No / Explain | | |
| 20 | M&C Interface | Units shall have LAN interface for M&C functionality. | Yes / No / Explain | | |

Document : Shad TX & RX

16. ANTENNA SYSTEMS Baseband system for the above Shadnagar Antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|-------|------------|-----------------------|--------|
| 1 | Specifications are same as SI.No : 3 (Baseband system for Antarctica antenna) and as per the points mentioned in RFP section 4.4 | | - | | |

Document : Shad Base band

17. ANTENNA SYSTEMS M & C Systems & Instruments for the above Shadnagar Antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|-------|------------|-----------------------|--------|
| 1 | Specifications are same as mentioned in SI. No 4 (M&C systems and instruments of above Antarctica antenna) | | - | | |

Document : Shad M&C

18. ANTENNA SYSTEMS Packaging, Transportation, Program management, Installation, Testing, Training and Documentation for the above Shadnagar Antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|-------|------------|-----------------------|--------|
| 1 | Specifications are same as mentioned in SI. No 6 (Packaging, Transportation, Program management, Installation & Testing for the above Antarctica antenna) | | - | | |

Document : Shad program management

19. ANTENNA SYSTEMS civil foundation, electrical & cable trays in pedestal for shadnagar antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---|-------|------------|-----------------------|--------|
| 1 | Specifications are same as mentioned in SI. No 7 (Civil works for Ka Band antenna at Bharathi Station Antarctica (Antenna foundation & cable trays) & electrical works) | | - | | |

Document : Shad civil

20. ANTENNA SYSTEMS: 1st year post warranty CAMC for the Shadnagar Antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---|-------|------------|-----------------------|--------|
| 1 | Specifications are same as SI. No 8 (5 years post warranty CAMC for Ka Band antenna at Bharathi Station Antarctica) | | - | | |

Document : Shad CAMC

21. ANTENNA SYSTEMS 2nd year post warranty CAMC for the Shadnagar Antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-------------------------------------|-------|------------|-----------------------|--------|
| 1 | Specifications are same as SI.No :8 | | - | | |

[Document : Shad CAMC](#)

22. ANTENNA SYSTEMS 3rd year post warranty CAMC for the Shadnagar Antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|------------------------------------|-------|------------|-----------------------|--------|
| 1 | Specifications are same as SI.No 8 | | - | | |

[Document : Shad CAMC](#)

23. ANTENNA SYSTEMS 4rd year post warranty CAMC for the Shadnagar Antenna

Item specifications for ANTENNA SYSTEMS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-------------------------------------|-------|------------|-----------------------|--------|
| 1 | Specifications are same as SI. No 8 | | - | | |

[Document : Shad CAMC](#)

Common Specifications (Applicable for all items)

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|-------|------------|-----------------------|--------|
| 1 | Compliance to Table 6 - List of deliverables for both Antarctica and NRSC Shadnagar Antenna separately | | - | | |

| | | | | | |
|----|--|--|---|--|--|
| 2 | Compliance to Section 7 Terms & Conditions including 7.1 (technical), 7.2 (Commercial) & 7.3 (Pre-bid Meeting) | | - | | |
| 3 | Compliance to Section 8 - Vendor eligibility criteria | | - | | |
| 4 | Compliance to Section 9 including sub section of 9.1, 9.1.1, 9.1.2, 9.1.3 - warranty. | | - | | |
| 5 | Compliance to Section 9.2, 9.2.1, 9.2.2 & 9.2.3 -CAMC for 5 years after standard warranty | | - | | |
| 6 | Compliance to Section 10 - Project schedules and reviews | | - | | |
| 7 | Compliance to Section 11 - Training and Documentation | | - | | |
| 8 | Compliance to Section 12 - Packing and Transportation | | - | | |
| 9 | Compliance to Section 13 - Safety | | - | | |
| 10 | Compliance to Section 14 - Disclosure and use of information by the supplier | | - | | |
| 11 | Compliance to Section 15.1 - Annexure -1: List of critical spares | | - | | |

| | | | | | |
|----|--|--|---|--|--|
| 12 | Compliance to Section 15.2 - Annexure -2: Price bid format | | - | | |
| 13 | Compliance to Section 16 under Section - B - General terms and conditions | | - | | |
| 14 | Compliance to Section 3 of RFP | | - | | |
| 15 | The Antenna Systems of suitable diameter and specifications are required to be installed at Bharati, Antarctica and NRSC, Shadnagar for the purpose of establishing Satellite-Communication Link with a high-speed data rate link of about 1 Gbps through GEO platform of IDRSS. | | - | | |
| 16 | In view of harsh climatic and heavy wind conditions at Antarctica, the antenna base platform has to be erected using pile foundation and the antenna is to be enclosed in a radome. | | - | | |

| | | | | | |
|----|--|--|---|--|--|
| 17 | The two Antenna Systems shall be equipped with required RF systems, High Speed Modems, Associated data handling systems and Monitor & Control System. This requirement is proposed to be realized on 'Turn Key Basis'. | | - | | |
| 18 | Antarctica scope of work: Antenna System of less than 10 m diameter reflector with Ka band feed for high-speed communication link along with Pile foundation and Radome for the antenna shall fulfill the following functionality. | | - | | |
| 19 | Shall utilize 500 MHz transponder bandwidth and establish 1 Gbps Data link between Antarctica and NRSC, Shadnagar adapting optimum bandwidth utilization techniques. | | - | | |

| | | | | | |
|----|---|--|---|--|--|
| 20 | The link shall support high speed data transfer from Bharati, Antarctica to NRSC, Shadnagar at 1 Gbps data rate and two-way communication services for MCS and return signal, each at 10 Mbps data rate. As the satellite is not supporting the return link from Shadnagar to Antarctica in Ka band, if required the existing C band link through GSAT-17 or any other new techniques shall be explored for realization of return link. | | - | | |
| 21 | Suitable Radome for the Antenna system with Ka band feed. | | - | | |
| 22 | Design, fabrication and construction of Pile Foundation and Base platforms for mounting Antenna and Radome. | | - | | |
| 23 | Compliance for Shadnagar System | | - | | |

| | | | | | |
|----|--|--|---|--|--|
| 24 | Scope of work for Shadnagar System: Antenna System of less than 10 m diameter reflector with Ka band feed for high-speed communication link along with foundation shall fulfill the following functionality. | | - | | |
| 25 | Receive 1 Gbps Raw Data being transmitted from Antarctica and transfer it to data storage systems of IMGEOs/Shadnagar. | | - | | |
| 26 | Establish two-way communication services for MCS and return signal each at 10 Mbps data rate. If required the existing C band link through GSAT-17 or any other new techniques shall be explored for realization of return link. | | - | | |
| 27 | Shall also be capable of receiving LEO data acquired directly by IDRSS through a second RF channel for the Shadnagar antenna system. | | - | | |

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|----|--|--|---|--|--|
| 28 | Design, fabrication and construction of Antenna Foundation. | | - | | |
| 29 | Suitable Antenna with control system, RF & Baseband systems like HPAs, LNAs, Up-converters, Down-converters, FO links, Modems, M&C, Baseband system, etc to be equipped in both Antenna Systems. | | - | | |
| 30 | Compliance to RFP section 4 & 4.1 Antenna feed and tracking system | | - | | |
| 31 | Compliance to RFP Table 1: Technical specifications of antenna system including mechanical and Environmental | | - | | |
| 32 | Compliance to RFP section 4.2 Transmit system | | - | | |
| 33 | Compliance to RFP Table 2 : Specifications of Transmit system | | - | | |
| 34 | Compliance to RFP section 4.3 Receive system | | - | | |
| 35 | Compliance to RFP Table 3 : Specification of the receive system | | - | | |

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|----|--|--|---|--|--|
| 36 | Compliance to RFP Table 3A: Specifications of 1:2 Ka band down converter for LEO data acquired directly through IDRSS (for Shadnagar only) | | - | | |
| 37 | Compliance to Section 4.4 - Baseband system for high speed data communication link | | - | | |
| 38 | Compliance to Table 4 - Technical specifications of MODEM | | - | | |
| 39 | Compliance to Section 4.5 - Monitor & Control System | | - | | |
| 40 | Compliance to Section 4.6, 4.6.1, 4.6.2 - Station test and Measuring Instrumentation | | - | | |
| 41 | Compliance to Section 4.7 - Antenna Radome | | - | | |
| 42 | Compliance to Table 5 Radome Specifications & Radome Installation | | - | | |
| 43 | Compliance to Section 4.8 - Civil Works | | - | | |
| 44 | Compliance to Section 4.9 - Electrical | | - | | |
| 45 | Compliance to Section 6 - Deliverables | | - | | |

Supporting Documents required from Vendor

1. compliance matrix for all the sections, subsections and specification for each system with supporting data sheets of RFP

2. Authorizations from OEM's

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

| Sl. No. | Description | Compliance | Vendor Terms |
|---------|---|--------------------|--------------|
| 1 | Refer to Section B (Clause 16) of RFP for general terms and conditions | Yes / No / Explain | |
| 2 | Delivery at NRSC Shadnagar and cape town South Africa for Antarctica systems | Yes / No / Explain | |
| 3 | Taxes & Duties a) Taxes shall be distinctly shown in the offer. b) GST/IGST: Please mention GST only in percentage. (HSN/SAC code shall be indicated for each item and accordingly mention the GST Rate applicable as per prevailing guidelines). | Yes / No / Explain | |
| 4 | CUSTOMS DUTY As per Notification No.51/96 Customs dated July 23, 1996 read with Notification No43/2017 dated 30.06.2017 ISRO is eligible to reduced rate of customs duty @5.5%. We will provide Customs Duty Exemption Certificate in case of Imported components, if any required to manufacture the quoted products. In this connection, tenderer has to provide the following: (i) Please indicate whether your rate is inclusive of this Customs duty @ 5.5%or extra. (ii) List of items with quantities which require customs duty exemption certificate to be provided. Please note that in case of Two part tenders, only percentage should be mentioned. You should not indicate any amount/price details. If you are indicating price/amount details, such offers shall be summarily rejected. | Yes / No / Explain | |
| 5 | Please mention your GST registration details GST No. for NRSC :36AAATN3989R1ZK | Yes / No / Explain | |
| 6 | Please provide Authorization certificate from OEM clearly indicating the Tender reference no. | Yes / No / Explain | |

| | | | |
|---|---|--------------------|--|
| 7 | <p>2) Delivery Terms:</p> <p>a) For Antarctica: The vendor will be responsible for Supply on DDP (Delivery and Duty Paid) basis upto Cape Town, South Africa and also for Installation, Testing, Commissioning, Training, Documentation of the Antennas at Antarctica.</p> <p>b) For ES-Shadnagar, NRSC: The vendor will be responsible for Supply, Installation, Testing, Commissioning, Training, Documentation of the Antenna at NRSC Shadnagar on FOR (Free On Road/Rail) basis.</p> <p>c) CAMC: ONSITE-ES-Shadnagar, NRSC & Online Support for Larsemann Hills, Antarctica</p> | Yes / No / Explain | |
| 8 | <p>Freight charges, if any. If YES please mention the percentage. NOTE :Please note that in case of Two part tenders, only percentage should be mentioned. You should not indicate any amount/price details. If you are indicating price/amount details, such offers shall be summarily rejected.</p> | Yes / No / Explain | |

| | | | |
|---|--|--------------------|--|
| 9 | <p>Delivery Schedule</p> <p>a) The Pile foundation for antenna platform, radome and cable tray work shall be completed in 2023 expedition (Oct -Nov). The delivery of systems for Antarctica shall be done on or before 30th September, 2024 at Cape Town. After supply, the installation and commissioning for the Antarctica system shall be completed during 2024 summer expedition (from November 2024 to February 2025).</p> <p>OR</p> <p>b) Delivery, installation and commissioning of systems for Antarctica system along with Pile foundation for antenna platform, radome and the cable tray work shall be completed during 2024 summer expedition (from November 2024 to February 2025). The delivery of systems for Antarctica shall be done on or before 30th September, 2024 at Cape Town.</p> <p>c) The delivery for Shadnagar antenna shall be completed on or before 31st Aug 2024 and the antenna foundation and installation to be completed by 31st Dec 2024. The final link testing, acceptance and performance demonstration is by including both antenna systems. 14 Detailed activity and time schedules for each of the activities till delivery of the consignment at Cape Town, South Africa, shall be provided by the vendor at the time of submission of the proposals.</p> | Yes / No / Explain | |
|---|--|--------------------|--|

| | | | |
|----|--|--------------------|--|
| 10 | <p>Payment Term :</p> <p>i)For Supply:</p> <p>a. 70% of supply value(i.e. Sl.no. 1 to 5 and Sl.no 9 to 12 of Annexure-2 of RFP 15.2 (price bid format) shall be paid after supply of all the systems / items at both places.</p> <p>b. 20% of supply value (i.e. Sl.no. 1 to 5 and Sl.no 9 to 12 of Annexure-2 of RFP 15.2(price bid format) and 90% of Sl.no. 6 & 7 and Sl.no. 13 & 14 of Annexure-2 of RFP 15.2(price bid format)) shall be paid after the successful completion of installation, on-site acceptance, Training and documentation at both places.</p> <p>(Note: Payment in INR shall be made by PFMS & Payment in Foreign currency shall be made as per the mode mentioned by vendor i.e.,LC/Sight Draft).</p> <p>c. Remaining 10% will be paid after the completion of standard warranty.</p> <p>ii)CAMC:</p> <p>Pro-rata Half yearly payment against submission of bills/Invoice, shall be made after satisfactory completion of each half year certified by focal points and approved by next higher authority for having rendered the service satisfactorily during CAMC, to release the payment.</p> | Yes / No / Explain | |
| 11 | <p>Liquidated Damages (LD):Since delivery is the essence of this order, the supplier shall execute the total scope of purchase order i.e., supply / installation , commissioning training & documentation / total scope of work within the Delivery Schedule indicated in the Purchase Order. In case, if the supplier fails to do so, Liquidated Damages shall be levied @ 0.5% per week or part thereof subject to a maximum of 10% of the Supply, installation, commissioning, training & documentation value (Sl.no. 1 to 7 & Sl.no. 9 to 14 of Price Bid (Annexure-2 of RFP 15.2)) "for the delayed period.</p> | Yes / No / Explain | |
| 12 | <p>Warranty: The warranty shall start after installation of all the systems, demonstration of fully functional system and completion of Final Onsite Acceptance Tests. All Supplies shall be warranted for a minimum period of 3 years, for normal performance</p> | Yes / No / Explain | |

| | | | |
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| 13 | <p>Performance Bank Guarantee (PBG) for Warranty: 10% of Supply, installation, commissioning, testing, training & documentation value (Sl.no. 1 to 7 and Sl.no. 9 to 14 of Price Bid(Annexure-2 of RFP 15.2)) shall be submitted as PBG in the form of Bank Guarantee on Rs.100/- non judicial stamp paper (as per format given by NRSC) from a Nationalized / Scheduled Bank at the time of supply valid till the completion of warranty period(3 Years) plus 60 days. The same will be released to the supplier after satisfactory completion of warranty period upon request received from the supplier. If the supplier fails to execute the warranty obligations, then the PBG shall be forfeited without any further reference.</p> | Yes / No / Explain | |
| 14 | <p>Security Deposit (SD) :- a) For Supply Part: 10% value of the Supply, installation, commissioning, testing, training & documentation value (Sl.no. 1 to 7 and Sl.no. 9 to 14 of Price Bid (Annexure-2 of RFP 15.2)) shall be deposited with NRSC within 15 days from the date of receipt of Purchase Order towards Security Deposit in the form of Bank Guarantee on Rs.100/- non judicial stamp paper (as per format given by NRSC) from a Nationalised / Scheduled Bank towards performance of the Contract valid till completion of the contract period plus sixty days. This will be returned by NRSC on execution of the order satisfactorily as per order terms upon request received from the supplier. If the supplier fails to execute the order, then the SD shall be forfeited without any further reference.</p> <p>b) For CAMC: BG in the prescribed format shall be provided before 15 days of commencement of CAMC for 10% of total value of CAMC valid till completion of CAMC period (5 Years) plus 02 months from a Nationalized/Scheduled Bank. The same will be released to the supplier after satisfactory completion of CAMC period upon request received from the supplier. If the supplier fails to execute the CAMC obligations, then the BG shall be forfeited without any further reference.</p> | Yes / No / Explain | |

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| 15 | <p>COMBINED BANK GUARNATEE (SD Cum PBG) : In case, if parties are unable to provide two separate BGs, i.e., one for SD & one for PBG, they can submit a combined BG for SD & PBG for 10% of the Supply installation, commissioning, testing, training & documentation value (Sl.no. 1 to 7 and Sl.no. 9 to 14 of Price Bid (Annexure-2 of RFP 15.2)) valid till the completion of total contractual obligation (i.e., Supply period plus warranty period (03 Years) plus 60 days) within 15 days from the date of receipt of Purchase Order in the form of Bank Guarantee on Rs.100/- non judicial stamp paper from a Nationalised / Scheduled Bank (as per format given by NRSC). This will be returned by NRSC on execution of the purchase order satisfactorily as per order terms upon request received from the supplier. If the supplier fails to execute the order, then this BG shall be forfeited without any further reference.</p> | Yes / No / Explain | |
| 16 | <p>Validity of Offer :- The validity of the offers / tenders should be 180 days from the date of opening of the tenders. Tenders shorter than offer validity mentioned above will not be considered for evaluation.</p> | Yes / No / Explain | |
| 17 | <p>Please specify whether you are a MSME if so please furnish the documentary evidence along with your offer. Vendors may please note that MSMEs are not exempted from the submission of security deposit.</p> | Yes / No / Explain | |
| 18 | <p>Please provide the following details in order to facilitate us to register in PFMS. This is mandatory for making payment: 1) Bank Account Number 2) IFSC Code 3) PAN No 4) GST Registration No and copy of GST registration certificate 5) Mobile No 6) Email ID</p> | Yes / No / Explain | |
| 19 | <p>HDD Clause : In case of any Hard Disk failure during the warranty period, the same shall be replaced without any additional cost to NRSC and without insisting for the faulty disk.</p> | Yes / No / Explain | |

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| 20 | <p>Arbitration Clause: In the event of any dispute or difference arising under these terms & conditions or any condition contained in the Purchase Order or in connection with this Contract. (except as to any matter the decision of which is specially provided for by these conditions), the same shall be referred to the sole arbitration of the Head of the Purchase Office or of some other person appointed by him, and the dispute further processed in terms of the Arbitration & Conciliation Act, 1996 and as amended from time to time. There will be no objection that the arbitrator is a Government Servant that he had to deal with matter which the Contract relates to or that in the course of his duties as Government Servant has expressed views on all or any of the matters in dispute or difference. The award of the arbitrator shall be final and binding on the parties of this Contract. The place/Venue of arbitration shall be in India.</p> | Yes / No / Explain | |
| 21 | <p>Down Time Compensation during Warranty & CAMC: 1. During the warranty period, all the Systems and Sub-systems shall be maintained with an uptime of 99%. If the uptime as specified is not maintained, the following down-time charges will be levied. i) A total Down time of 4 Days Maximum per year is permissible. ii) Over and above 4 days down time, down time compensation at the rate of 0.25% per day of the total supply value and subject to a maximum of 10% of total supply value shall be levied.</p> <p>2. During the CAMC period, all the Systems and Sub-systems shall be maintained with an uptime of 99%. If the uptime as specified is not maintained, the following down-time charges will be levied. i) A total Down time of 4 Days Max. per year is permissible. ii) Over and above 4 days down time, down time compensation at the rate of 0.25% per day of one-year CAMC amount shall be levied subject to a maximum of 10% of annual CAMC value.</p> | Yes / No / Explain | |

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| 22 | Material Bank Guarantee (Supply & CAMC): As the material is a property of NRSC/ISRO, in case of transporting the material or a defective part outside the installed premises during the warranty/ CAMC period, a suitable replacement for the defective part of the equipment or Material Bank Guarantee towards the value of the defective item/ equipment shall be provided to enable us to hand over the item or defective parts to the vendor for repairs. Material Bank Guarantee shall be provided as per the format which shall be sent along with the purchase order. | Yes / No / Explain | |
| 23 | Applicable Law Clause: The laws of India shall govern this contract for the time being in force. The Courts of Telangana only shall have jurisdiction to be with and decide any legal matters or disputes what so ever arising out of the contract. | Yes / No / Explain | |
| 24 | Risk Purchase Clause:- In case the vendor fails to fulfil the contractual obligations, the Centres /Units shall have an option of completing the contract/ procurement at the risk and expense of the vendor concerned. Wherever the risk purchase clause is enforced, the vendor is liable to pay the additional amount if any spent by the Centre/Unit as against the value of the Purchase Order / Contract. The purchaser reserves the right to get the balance work executed through another vendor by following their own procedure. | Yes / No / Explain | |
| 25 | Confidentiality:- In the event of placement of order, the respective vendor shall note and ensure that Technical Specifications and technical features of the equipment supplied shall be confidential and shall not be disclosed to third party | Yes / No / Explain | |
| 26 | Guidelines on Debarment of firms from Bidding: Vendors may note the Guidelines on Debarment of firms vide O.M No. F.1/20/2018-PPD dated 02.11.2021 issued by Department of Expenditure in line with rule no.151&175(code of Integrity) of GFR(General Financial Rules). On submission of bids, it is presumed that bidders have read and understood the Debarment guidelines. | Yes / No / Explain | |

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| 27 | Force Majeure Condition: In the event that the performance of the contract is delayed or hampered due to Force Majeure Condition, such as Pandemic, Floods, War, Government Policies, Natural Calamities, etc, the party whose performance of the contract is affected due to Force Majeure Condition shall notify the other party promptly about the existence of force majeure condition in any case within a period of sixty days from the date the performance is affected. Both the parties may in such a situation shall take necessary steps either for extension of the delivery period of the contract or short closure of the contract. | Yes / No / Explain | |
| 28 | Evaluation criteria: The offers shall be evaluated on the basis of Overall L1 | Yes / No / Explain | |
| 29 | Registration of Bidders from Countries sharing Land Borders with India:- In case the bidder participating in this tender is from a country sharing Land Border with India, their offers shall be considered only if they were registered with the competent authority as per OM.No. F.No.6/18/2019-PPD dt.23.07.2020 issued by DPIIT. Similarly the successful bidder shall not be allowed to sub-contract works to any Contractor from a country which shares land border with India unless such contractor is registered with the competent authority as per the terms mentioned in the order. | Yes / No / Explain | |
| 30 | Any Other terms : | Yes / No / Explain | |

C.3 Price Bid

| Sl. No. | Item | Quantity | Unit Price | Currency | Total Price | Remark |
|---------|--|------------|------------|----------|-------------|--------|
| 1 | ANTENNA SYSTEMS 5th year post warranty CAMC for Ka Band antenna at Bharathi Station Antarctica | 1.00 Years | | - | | |

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| 2 | ANTENNA SYSTEMS Ka band antenna System at Bharathi station Antarctica with 3 years standard warranty | 1.00 Nos. | | | | |
| 3 | ANTENNA SYSTEMS Transmit and Receive system for the above Antarctica antenna | 1.00 Sets | | | | |
| 4 | ANTENNA SYSTEMS Base band system for Antarctica antenna | 1.00 Sets | | | | |
| 5 | ANTENNA SYSTEMS M&C systems and instruments for the above Antarctica antenna | 1.00 Nos. | | | | |
| 6 | ANTENNA SYSTEMS Radome for the above Antarctica antenna | 1.00 Nos. | | | | |
| 7 | ANTENNA SYSTEMS 5th year post warranty CAMC for the Shadnagar Antenna | 1.00 Years | | | | |
| 8 | ANTENNA SYSTEMS Packaging ,Transportation, Program management, Installation, Testing, Training and Documentation for the above Antarctica antenna | 1.00 Lot | | | | |

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|----|---|------------|--|--|--|--|--|
| 9 | ANTENNA SYSTEMS Civil works for Ka Band antenna at Bharathi Station Antarctica (Antenna foundation & cable trays and electrical works including UPS systems) | 1.00 Lot | | | | | |
| 10 | ANTENNA SYSTEMS 1st year post warranty CAMC for Ka Band antenna at Bharathi Station Antarctica | 1.00 Years | | | | | |
| 11 | ANTENNA SYSTEMS 2nd year post warranty CAMC for Ka Band antenna at Bharathi Station Antarctica | 1.00 Years | | | | | |
| 12 | ANTENNA SYSTEMS 3rd year post warranty CAMC for Ka Band antenna at Bharathi Station Antarctica | 1.00 Years | | | | | |
| 13 | ANTENNA SYSTEMS 4th year post warranty CAMC for Ka Band antenna at Bharathi Station Antarctica | 1.00 Years | | | | | |

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| 14 | ANTENNA SYSTEMS Ka Band antenna System at Shadnagar with 3 years standard warranty | 1.00 Nos. | | - | | |
| 15 | ANTENNA SYSTEMS Transmit and Receive system for the above Shadnagar Antenna | 1.00 Sets | | - | | |
| 16 | ANTENNA SYSTEMS Baseband system for the above Shadnagar Antenna | 1.00 Sets | | - | | |
| 17 | ANTENNA SYSTEMS M & C Systems & Instruments for the above Shadnagar Antenna | 1.00 Nos. | | - | | |
| 18 | ANTENNA SYSTEMS Packaging, Transportation, Program management, Installation, Testing, Training and Documentation for the above Shadnagar Antenna | 1.00 Lot | | - | | |
| 19 | ANTENNA SYSTEMS civil foundation, electrical & cable trays in pedestal for shadnagar antenna | 1.00 Lot | | - | | |

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| 20 | ANTENNA SYSTEMS: 1st year post warranty CAMC for the Shadnagar Antenna | 1.00 Years | | - | | |
| 21 | ANTENNA SYSTEMS 2nd year post warranty CAMC for the Shadnagar Antenna | 1.00 Years | | - | | |
| 22 | ANTENNA SYSTEMS 3rd year post warranty CAMC for the Shadnagar Antenna | 1.00 Years | | - | | |
| 23 | ANTENNA SYSTEMS 4rd year post warranty CAMC for the Shadnagar Antenna | 1.00 Years | | - | | |