



राष्ट्रीयसमुद्रप्रौद्योगिकीसंस्था  
न  
NATIONAL INSTITUTE OF  
OCEAN TECHNOLOGY

संविदाआमंत्रणसूचना(नि.आ.सू.)  
**NOTICE INVITING TENDER (NIT)**

फ़ार्मसंख्या:  
Form No. NIOT/S&P/NIT



**GEM-Tender Schedule**

|                                                                       |                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| निविदासंख्या/<br>Tender No.                                           | NIOT/S&P/OE/22449/2025-26                                                                                                                                                                                                                                                                      |
| कोजारी<br>Issued To                                                   | RTK GNSS Base                                                                                                                                                                                                                                                                                  |
| निविदाप्रणाली/Tender Mode                                             | GeM - Custom Bid                                                                                                                                                                                                                                                                               |
| बोलीकाप्रकारएवंनिविदाप्रस्तुतिकरण<br>Bidding Type & Tender submission | Single Part Tender comprising of Technical Bid and Price Bid should be submitted electronically through GeM portal <a href="https://gem.gov.in">https://gem.gov.in</a>                                                                                                                         |
| निविदाप्रलेखउपलब्धतास्थानTender Documents available place             | Bidders may download the help documents.<br>Helpdesk number :<br>Number: 1800-419-3436<br>E-Mail: <a href="mailto:helpdesk-gem@gov.in">helpdesk-gem@gov.in</a><br>For any issues / clarifications relating to the tender(s) published kindly contact the respective Tender Inviting Authority. |
| अपनेप्रश्नईमेलआईडीपरभेजें<br>Send your queries to the email IDs       | निविदाकेअंतिमचरण तक/Upto Tender finalisations<br><a href="mailto:gopalakrishnaa.niot@gov.in">gopalakrishnaa.niot@gov.in</a> / <a href="mailto:tendergroup@niot.res.in">tendergroup@niot.res.in</a>                                                                                             |

राष्ट्रीयसमुद्रप्रौद्योगिकीसंस्थान NATIONAL INSTITUTE OF OCEAN TECHNOLOGY  
वेलचरीताम्बरममेनरोड VELACHERY TAMBARAM MAIN ROAD  
नारायणपुरम, चेन्नै 600 100 NARAYANPURAM, CHENNAI 600 100  
रा.स.प्रौ.सं. वेबसाइट/NIOT Website : <https://www.niot.res.in/index.php/vendor/login>

**Commercial Terms Compliance sheet (The format should not be altered)**

| Sl. No | Particulars                                                                                                                                                             | Yes | No | offer Page Ref |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----------------|
| 1      | Whether every page of the tender document is signed for acceptance of tender and uploaded along with the offer?                                                         |     |    |                |
| 2      | Whether Taxes and duties are shown separately in the quote. (Registration numbers for claiming the same to be strictly indicated)                                       |     |    |                |
| 3      | Whether accepted to submit the order acceptance within 7 days from the date of order?                                                                                   |     |    |                |
| 4      | Whether Quote is valid for <b>90 days</b> from the due date of tender or time specified in the tender document whichever is later?                                      |     |    |                |
| 5      | Whether <b>payment terms</b> of the tender is complied with?                                                                                                            |     |    |                |
| 6      | Whether the bidder satisfies the Pre- qualification criteria                                                                                                            |     |    |                |
| 7      | a. a copy of your GST Registration certificates and PAN details are attached (Mandatory qualifying condition)                                                           |     |    |                |
|        | <b>a. The Goods / items quoted are manufactured in India and not imported from any country.</b>                                                                         |     |    |                |
|        | b. <b>Make in India Clause: If the item/goods are partially imported, specify your category:</b>                                                                        |     |    |                |
|        | 1. CLASS I Category: Supplier or service provider, whose goods, services or works offered for procurement, has local content greater than or equal to 50%.              |     |    |                |
|        | 2. CLASS II Category: Supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%.          |     |    |                |
| 8      | Whether self-certification form is enclosed (For ClassI & Class II supplier only)?                                                                                      |     |    |                |
| 9      | Whether price is <b>FOR /DAP NIOT,Chennai?</b>                                                                                                                          |     |    |                |
| 10     | Whether the freight cost is included, if not included whether the freight cost is indicated separately?                                                                 |     |    |                |
| 11     | Whether the <b>authorization letter</b> exclusively for this tender, from the original manufacturer is enclosed?                                                        |     |    |                |
| 12     | a) Whether <b>warranty</b> period accepted as per tender?                                                                                                               |     |    |                |
|        | b) Whether submission of <b>warranty</b> certificate in the prescribed format is acceptable?                                                                            |     |    |                |
| 13     | Whether the <b>delivery period</b> is clearly indicated, and is as per tender?                                                                                          |     |    |                |
| 14     | Whether the cost of installation/inspection/testing explicitly mentioned in the quote?                                                                                  |     |    |                |
| 15     | Whether Past track record of quality and service is enclosed?                                                                                                           |     |    |                |
| 16     | Whether list of deliverables attached and comply as per tender?                                                                                                         |     |    |                |
| 17     | Whether liquidated damage clause is acceptable in case of delayed supply?                                                                                               |     |    |                |
| 18     | Whether the tender is fully complying with tender specification/Adjustment if no, list out deviations very clearly along with the appropriate reason for the deviation? |     |    |                |
| 19     | Whether relevant data sheets/catalogs/brochure is enclosed alongwith the quotation?                                                                                     |     |    |                |
| 20     | Whether item-wise price is quoted as per price bid and quoted price is realistic?                                                                                       |     |    |                |
| 21     | Whether technical specification has been duly filled in and submitted with the tender document is uploaded along with the quotation.                                    |     |    |                |
| 22     | Whether HSN code of the product has been indicated?                                                                                                                     |     |    |                |
| 23     | <b>Whether your firm is registered under MSME/ NSIC/DIC/UAM/ Women Entrepreneur ? If yes enclose copy of registration</b>                                               |     |    |                |

**PRICE BID FORMAT**

| S. No.                   | Description                                             | Quantity | Unit | Unit rate | Amount |
|--------------------------|---------------------------------------------------------|----------|------|-----------|--------|
| 1.                       | RTK GNSS Base,<br>As per specification and deliverables | 4        | Nos. |           |        |
| Total Amount             |                                                         |          |      |           |        |
| (Amount in words. _____) |                                                         |          |      |           |        |

**Note:**

**# The goods items quoted are manufactured in India and not imported from any country.**

- The above price is FOR NIOT, Chennai and inclusive of all including the applicable GST.

NIOT has enrolled under GST in the category "Tax Deductor". The bidders are requested to update their database regarding NIOT's Registration under GST-Tax Deductor.

TDS @ 2% on the order value towards GST will be deducted on payments made to the supplier in respect of goods and/or services, supplied/provided if the value exceeds Rs. 2.5 lakhs.

1. The copy of the GST registration certificate to be attached.
2. The duly filled technical and commercial compliance sheets should be submitted along with quotation/offer.

**We agree to all applicable terms and conditions listed in the tender document.**

**Signature with Seal**

### **Specifications cum Technical compliance sheet**

| <b>S.No</b> | <b>Specification &amp; Requirements</b> |                                                                                     | <b>Compliance<br/>Yes/No</b> |
|-------------|-----------------------------------------|-------------------------------------------------------------------------------------|------------------------------|
| 1.          | RTK GNSS Base                           |                                                                                     |                              |
| 2.          | IMU type                                | Multi Band IMU                                                                      |                              |
| 3.          | Positioning - Static                    | H: 4 mm+0.5 ppm, V: 8 mm+1 ppm                                                      |                              |
| 4.          | Positioning - PPK                       | H: 5 mm+0.5 ppm, V: 10 mm+1 ppm                                                     |                              |
| 5.          | Positioning - RTK                       | H: 7 mm+ 1ppm, V: 14 mm+1ppm                                                        |                              |
| 6.          | Convergence time                        | 5 Sec or less                                                                       |                              |
| 7.          | Signal tracked                          | GPS/QZSS L1C/A, L2C<br>GLONASS L10F, L20F, BeiDou B1I,<br>B2I, Galileo E1B/C, E5b   |                              |
| 8.          | Tilt compensation                       | RTK + 8 mm+0.4 mm/°                                                                 |                              |
| 9.          | Number of channels                      | 184 or more                                                                         |                              |
| 10.         | Update rates                            | Up to 10 Hz                                                                         |                              |
| 11.         | Connectivity – LoRa<br>radio            | Frequency range : 868 MHz /<br>915 MHz                                              |                              |
|             |                                         | Power : 0.1 W<br>Distance : up to 8 km                                              |                              |
| 12.         | LTE Modem                               | Regions : Global<br>Bands :FDD LTE/TD LTE/UMTS/<br>Quad Band<br>Sim card : Nano SIM |                              |
| 13.         | Wifi                                    | 802.11 b/g/n                                                                        |                              |
| 14.         | Bluetooth                               | 4.0/2.1 EDR or latest                                                               |                              |
| 15.         | Ports                                   | 1x RS232 & 1x USB Type - C                                                          |                              |

|     |                                                    |                                                                                                                                                                                                   |  |
|-----|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 16. | Data protocols                                     | Corrections : NTRIP, RTCM3<br>Position output : NMEA, LLH/XYZ                                                                                                                                     |  |
| 17. | Data logging                                       | RINEX                                                                                                                                                                                             |  |
| 18. | Internal storage                                   | 16 GB or more                                                                                                                                                                                     |  |
| 19. | Receivers Accuracy                                 | In cm level                                                                                                                                                                                       |  |
| 20. | Power source                                       | Battery : 7.2 V minimum @ 5200<br>mAh, Lithium Ion<br>External Input : 6 – 24 V                                                                                                                   |  |
| 21. | Battery charging cable                             | USB Type – C, 5V @ 3A                                                                                                                                                                             |  |
| 22. | Body material                                      | Impact resistant Ploy Carbonate                                                                                                                                                                   |  |
| 23. | Size                                               | Portable                                                                                                                                                                                          |  |
| 24. | LED for status updates<br>for                      | Battery, Power, Wifi, RTK                                                                                                                                                                         |  |
| 25. | Weight                                             | Less than 1 kg                                                                                                                                                                                    |  |
| 26. | Ingress class                                      | IP67                                                                                                                                                                                              |  |
| 27. | Environment                                        | -20 to 65°C                                                                                                                                                                                       |  |
| 28. | RTK GNSS base and<br>accessories -<br>Deliverables | RTK GNSS Base – 4 Nos.<br>Heavy Duty Aluminum Tripod – 4<br>Nos.<br>Tribrach with optical plummet – 4<br>Nos.<br>USB cable – 4 Nos.<br>LoRA antenna – 4 Nos.<br>Carrying case with strap - 4 Nos. |  |

**1. PRICE VALIDITY:**

Quote validity should be provided minimum for 90 Days.

**2. WARRANTY:**

Warranty should be provided for 12 Months from the date of acceptance of the items at NIOT.

**3. DELIVERY PERIOD:**

The Items shall be delivered within 8-10 weeks from the date of receipt of order.

**4. PAYMENT:**

100% payment will be made after the supply and acceptance of the materials.

**Format for self Certification under preference to make in India order**

**Certificate**

In line with Government Public Procurement Order No.P-45021/2/2017-BE-II dt.15.06.2017 & P-45021/2/2017-PP (BE-II) dated 28.05.2018, we hereby certify that we M/s \_\_\_\_\_  
\_\_\_\_\_(supplier name) are local supplier meeting the requirement of minimum local content as \_\_\_\_%  
defined in above orders for the material against Enquiry  
No.....

Details of location at which local value addition will be made is as follows:

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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.

Seal and Signature of Supplier

**SPECIMEN COPY (to be given in your Letter Head)**  
**WARRANTY CERTIFICATE**

The contractor / seller .....  
Address .....  
.....hereby declares that the goods/stores/articles,  
namely .....sold to the buyer Director, National Institute of  
Ocean Technology, Chennai, under the Contract / Purchase Order  
No.....shall be of the best  
quality (and Workmanship) and shall be strictly in accordance with the specifications and  
particulars contained / mentioned in the clause / order .....hereof and the  
contractor / seller hereby guarantees that the said goods / stores / articles would continue  
to confirm to the description and quality aforesaid for a period of .....  
days/month/year from the date of delivery of the said goods / stores / articles to the  
purchaser i.e., .....day of .....2022 and that notwithstanding  
the fact that the purchaser or his authorized representative may have inspected and / or  
approved the said goods / stores / articles, if during the aforesaid period of .....  
days / months / years the said goods/stores/articles be discovered not to conform to the  
description and quality aforesaid or have deteriorated (and the decision of the purchaser in  
that behalf will be final and conclusive) the purchaser will be entitled to reject the said  
goods/stores/articles or such portion thereof as may be discovered not to conform to the  
said description and quality. On such rejection the goods/articles/stores will be at the  
seller's risk and all the provisions herein contained relating to rejection of goods etc.,  
shall apply. The contractor / seller, if so called upon to do, replace the goods, etc., or  
such portion thereof as is rejected by the purchaser, otherwise the contractor/seller shall  
pay the purchaser such damages as may arise by reasons of the breach of the conditions  
herein contained. Nothing herein contained shall prejudice any other right of the  
purchaser in that behalf under this contract or otherwise.