

भारतीय राष्ट्रीय महासागर सूचना सेवा केंद्र  
पृथ्वी विज्ञान मंत्रालय, भारत सरकार  
"ओशियन वैली", प्रगति नगर (बी. ओ), निज़ामपेट (एस. ओ), हैदराबाद - 500 090  
दूरभाष सं. 040-2388 6002 / 23886074 फ़ैक्स : 040-2389 2910 / 2389 5001  
**INDIAN NATIONAL CENTRE FOR OCEAN INFORMATION SERVICES**  
**Ministry of Earth Sciences, Government of India**  
**"Ocean Valley", Pragathi Nagar (BO), Nizampet (SO), Hyderabad - 500 090**  
**Phone No.040-2388 6002/23886074 Fax: 040-2389 2910/2389 5001**

इंकोईस:क्रय:27/2025  
Ref. INCOIS: PUR: 27/2025

दिनांक: 09.06.2026  
Date: 09.06.2026

सरकारी ई बाज़ार द्वारा निविदा सूचना आमंत्रण  
**Notice Inviting Tender through Government E Market Place (GeM)**

भारतीय राष्ट्रीय महासागर सूचना सेवा केंद्र, हैदराबाद भारत सरकार के पृथ्वी विज्ञान मंत्रालय के अंतर्गत एक स्वायत्त निकाय है।  
Indian National Centre for Ocean Information Services (INCOIS), Hyderabad is an autonomous body under Ministry of Earth Sciences, Government of India.

निम्न विवरणों के लिए पंजीकृत विक्रेताओं से निविदाओं/बोलियों को आमंत्रित किया जाता है। जीईएम की एक अधिप्राप्ति होने के नाते बोलियों को केवल सरकारी ई बाज़ार (जीईएम) <http://gem.gov.in/> द्वारा ऑनलाइन से ही जमा किया जाए। एनआईटी का संक्षिप्त विवरण नीचे दिया जा रहा है।

Tenders/Bids are invited from registered vendors of GeM for the following items. Being a GeM procurement, the bids has to be submitted online through **Government E- Market Place (GeM) <http://gem.gov.in/>** only. The brief details of NIT are appended below.

क्र. सं. S I. No	कार्य का नाम Name of the Work	बोली संदर्भ सं. Bid Reference No.	बोली संख्या एवं दिनांक Bid Number and Date	बोली समाप्ति की तारीख और समय Bid end date and Time
(1)	30 संख्या के रियल टाइम एयर-सी मौसम विज्ञान (IRASIMET) तथा INSAT प्रणालियों की आपूर्ति, स्थापना, एकीकरण और कमीशनिंग, एक वर्ष की मानक वारंटी तथा 3 वर्ष के CAMC सहित। "Supply, Installation, Integration and Commissioning of 30 No. of Real Time Air Sea metrological (IRASIMET) and INSAT systems and with a one-year standard warranty and 3 year CAMC.."	इंकोईस:क्रय:27/2025 INCOIS: PUR: 27/2025	जीईएम/2026/बी/7637976 दिनांक: 09.06.2026 GEM/2026/B/7637976 dated 09.06.2026	30.06.2026 11:00:00

जीईएम की एक अधिप्राप्ति होने के नाते बोलियों को केवल जीईएम पोर्टल अर्थात बोली/आरए के खाने के अंतर्गत <http://gem.gov.in/> द्वारा ऑनलाइन से ही जमा किया जाए। किसी भी प्रकार की सहायता के लिए कृपया जीईएम पोर्टल की हेल्प लाइन से संपर्क करें। निम्न अधिकारियों से भी संपर्क किया जा सकता है: श्री वी सुब्रह्मण्यम (ईमेल: [manyam@incois.gov.in](mailto:manyam@incois.gov.in); दूरभाष सं. 040 2388 6022)/ श्री श्री दसारी प्रसाद (ईमेल: [dasariprasad@incois.gov.in](mailto:dasariprasad@incois.gov.in) दूरभाष सं 040-2388 6082)

Being a GeM procurement, the bid has to be submitted online through the GeM portal i.e., [http://gem.gov.in](http://gem.gov.in/) under the Bids/RAs column. For any assistance, please contact help line of GeM portal. The following officials may also be contacted: Mr. V. Subrahmanyam (email: [manyam@incois.gov.in](mailto:manyam@incois.gov.in); Phone No. 040 2388 6022)/Mr. Dasari Prasad (email: [dasariprasad@incois.gov.in](mailto:dasariprasad@incois.gov.in) Phone No. 040-2388 6082).



  
(V. Subrahmanyam)  
(प्रशासनिक अधिकारी (क्रय)/ Administrative Officer (Purchase)  
निविदा आमंत्रण प्राधिकारी, इंकोईस/  
Tender Inviting Authority, INCOIS

**बिड दस्तावेज़ / Bid Document**

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	30-06-2026 11:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	30-06-2026 11:30:00
बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)	90 (Days)
मंत्रालय/राज्य का नाम/Ministry/State Name	Ministry Of Earth Sciences
विभाग का नाम/Department Name	Department Of Earth Sciences
संगठन का नाम/Organisation Name	Earth Sciences Secretariate
कार्यालय का नाम/Office Name	Indian National Centre For Ocean Information Servi
शिकायत निवारण के संपर्क विवरण/ Contact details of Grievance redressal	manyam@incois.gov.in
कुल मात्रा/Total Quantity	30
वस्तु श्रेणी /Item Category	SIC of 30 Nos of IRASIMET Systems
GeMARPTS में खोजी गई स्ट्रिंग्स / Searched Strings used in GeMARPTS	IRISAMENT SYSTEMS
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	ENT Navigation Systems, Reverse Osmosis based Water Treatment System above 50 LPH Capacity (V2), Surgical Robotic Systems, Robotic or automated liquid handling systems, HF Gate Antenna Systems, Phototherapy Machine for (SNCU), Piercing Nozzles (Fire sprinkler systems ), Agriculture Monitoring and Automation Systems, Power Systems Planning Simulation Software, Revolving Chair (V5)
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> <li>• Meteorological Balloons</li> <li>• Sunshine Recorder -as per IS 7243</li> <li>• Wind Vane as per IS 5799</li> </ul>
बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का) /Minimum Average Annual Turnover of the bidder (For 3 Years)	933 Lakh (s)
उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष/Years of Past Experience Required for same/similar service	3 Year (s)
टर्नओवर के लिए एमएसई को छूट प्राप्त है / MSE Relaxation for Turnover	Yes   Partial   Turn over value - 455 (in lakhs)

<b>बिड विवरण/Bid Details</b>	
टर्नओवर के लिए स्टार्टअप को छूट प्राप्त है / <b>Startup Relaxation for Turnover</b>	Yes   Partial   Turn over value - 455 (in lakhs)
विक्रेता से मांगे गए दस्तावेज़/ <b>Document required from seller</b>	Experience Criteria,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,Additional Doc 4 (Requested in ATC),Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेजों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेनू है/ <b>Do you want to show documents uploaded by bidders to all bidders participated in bid?</b>	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / <b>Minimum number of bids required to disable automatic bid extension</b>	1
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / <b>Number of days for which Bid would be auto-extended</b>	7
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / <b>Number of Auto Extension count</b>	1
बिड से रिवर्स नीलामी सक्रिय किया/ <b>Bid to RA enabled</b>	No
व्यापक रखरखाव शुल्क आवश्यक / <b>Comprehensive Maintenance Charges Required</b>	Yes
बिड का प्रकार/ <b>Type of Bid</b>	Two Packet Bid
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय / <b>Time allowed for Technical Clarifications during technical evaluation</b>	3 Days
निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/ <b>Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)</b>	No
मूल्यांकन पद्धति/ <b>Evaluation Method</b>	Total value wise evaluation
वित्तीय दस्तावेज की आवश्यकता है / <b>Financial Document Required</b>	Yes
मध्यस्थता खंड/ <b>Arbitration Clause</b>	Yes ( <u>Arbitration clause document</u> ) as per DoE OM No.F.1/2/2024-PPD dated 03.06.2024 Arbitration should not be routinely included in contracts

**बिड विवरण/Bid Details**

सुलह खंड/Mediation Clause	Yes (Mediation clause document) as per DoE OM No.F.1/2/2024-PPD dated 03.06.2024 mediation clause should not be routinely included in contracts and pre-litigation mediation can be taken up without any such clause also
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**ईएमडी विवरण/EMD Detail**

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईएमडी राशि/EMD Amount	3730000

**ईपीबीजी विवरण /ePBG Detail**

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईपीबीजी प्रतिशत (%)/ePBG Percentage(%)	2.00
ईपीबीजी की आवश्यक अवधि (माह) /Duration of ePBG required (Months).	4

(a). जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।/EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए। / EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

(c). ईएमडी और संपादन जमानत राशि लाभार्थी के पक्ष में होनी चाहिए। / Earnest Money Deposit (EMD) shall also be accepted by the buyer in the form of a surety bond.

**लाभार्थी /Beneficiary :**

DIRECTOR INCOIS

Payable at Hyderabad Indian National Centre for Ocean Information Servi, Department of Earth Sciences, Earth Sciences Secretariate, Ministry of Earth Sciences  
(Director Incois)

बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

**एमआईआई खरीद वरीयता / MII Purchase Preference**

एमआईआई खरीद वरीयता / MII Purchase Preference	Yes
मेक इन इंडिया विक्रेताओं को खरीद में प्राथमिकता, यदि उनका मूल्य $L1+X\%$ तक की सीमा में है / Purchase Preference to MII sellers available upto price within $L1+X\%$	20

मेक इन इंडिया खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Maximum Percentage of Bid quantity for MII purchase preference	50
सार्वजनिक खरीद (मेक-इन-इंडिया को प्राथमिकता) आदेश 2017 के अनुसार केवल क्लास 1/क्लास 2 के स्थानीय आपूर्तिकर्ताओं को ही भागीदारी की अनुमति है दिनांक 16.09.2020 (समय-समय पर संशोधित एवं लागू) / Allow participation only from Class 1/Class 2 local suppliers as per the Public procurement(Preference to Make-in-india) order 2017 date 16.09.2020(as amended and applicable time to time)	Yes, in compliance with the MII ORDER : DPIIT Order(as amended and applicable time to time)

#### एमएसई खरीद वरीयता/MSE Purchase Preference

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माताओं/सेवा प्रदाता को खरीद में प्राथमिकता, यदि उनका मूल्य $L1+X\%$ / Purchase Preference to MSE OEMs/ Service Provider available upto price within $L1+X\%$	15
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माता/सेवा प्रदाता को खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Percentage of Bid quantity/amount for MSE OEMs/ Service Provider Purchase preference	25

1. If the bidder is a Micro or Small Enterprise (MSE) as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Bidder Turnover" as defined above subject to meeting of quality and technical specifications. If the bidder itself is MSE OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover, shall upload the supporting documents to prove his eligibility for Relaxation.
2. If the bidder is a DPIIT registered Startup, the bidder shall be relaxed from the the eligibility criteria of "Bidder Turnover" as defined above subject to their meeting of quality and technical specifications. If the bidder is DPIIT Registered OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover shall upload the supporting documents to prove his eligibility for Relaxation.
3. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM of the product offered in the bid {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts and delivery acceptance certificates like CRAC to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
5. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local

content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.

OM No.1 4 2021 PPD dated 18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017 and its subsequent Orders/Notifications issued by concerned Ministry .Benefits of MSE will be allowed only if seller/service provider is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

**6. Purchase preference to Micro and Small Enterprises (MSEs):** Purchase preference will be given to MSEs having valid Udyam Certificate and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service, and Buyer will decide eligibility for purchase preference based on documentary evidence submitted in case of product bids, whereas in case of services the eligibility is automatically validated. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No.1 4 2021 PPD dated 18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

एक्सेल में अपलोड किए जाने की आवश्यकता /Excel Upload Required :

PRICE BID - [1780923179.xlsx](#)

**Pre Bid Detail(s)**

मूल्य भिन्नता खंड दस्तावेज़/Pre-Bid Date and Time	प्री-बिड स्थान/Pre-Bid Venue
22-06-2026 11:00:00	INCOIS AND IN HYBRID MODE ALSO

**SIC Of 30 Nos Of IRASIMET Systems ( 30 Unit )**

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

**तकनीकी विशिष्टियाँ /Technical Specifications**

क्रेता विशिष्टि दस्तावेज़ /Buyer Specification Document	<a href="#">Download</a>
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व्यापक रखरखाव / Comprehensive Maintenance	
Comprehensive Maintenance ( Minimum Percentage )	3 %

व्यापक रखरखाव / Comprehensive Maintenance	
Comprehensive Maintenance ( Maximum Percentage )	25 %
Warranty of required product	1 Year
Comprehensive Maintenance Duration (Post Warranty)	3 Year

\*Warranty displayed under the AMC/CMC Details section will supersede the warranty displayed under the catalog specification

उपरोक्त मद के लिए इंस्टॉलेशन कमीशनिंग एंड टेस्टिंग (आईसीटी) का विवरण / Installation Commissioning and Testing (ICT) details for the above item:

% of Product Cost Payable on Product Delivery	70%
Min Cost Allocation for ICT as a % of product cost	20%
Number of days allowed for ICT after site readiness communication to seller	45 Days

प्रेषिती/रिपोर्टिंग अधिकारी तथा मात्र/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	30	45

Buyer added Bid Specific Additional Scope of Work

क्र.सं./S.N o.	Document Title	Description	रिवर्स प्रभार के अनुसार जीएसटी/Applicable i.r.o. Items
1	TENDER DOCUMENT <a href="#">View</a>	Supply of 30 Nos of IRISAMET Systems	SIC Of 30 Nos Of IRASIMET Systems(30)

The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are generalized and would not lead to any restrictive bidding.

## क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/**Buyer Added Bid Specific Terms and Conditions**

### 1. **Generic**

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be  $(\text{Increased quantity} \div \text{Original quantity}) \times \text{Original delivery period (in days)}$ , subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

### 2. **Service & Support**

Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

### 3. **Service & Support**

Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.

### 4. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

**Supply, Installation, Integration and Commissioning of 30 No. of Real Time Air Sea meteorological (IRASIMET ) and INSAT systems and with a one-year standard warranty and 3 year CAMC**

Payment terms:

Material Component:

- **70 %** payment will be released within 30 days upon supply and acceptance of materials at INCOIS, Hyderabad along with original Ink signed commercial invoice and warranty undertaking. Transportation of materials is vendors scope to respective ships with due transit insurance.
- **20%** payment will be released on prorata basis upon completion of, Installation, Integration and Commissioning Systems at each designated vessels and transportation of instruments to INCOIS along with 10 days continuous satisfactory real time data transmission receipt at INCOIS. Installation should be completed within 45 days of supply to INCOIS ,subjected to ship availability
- **10%** will be paid after successful completion of warranty period or against submission of a advance bank guarantee from a nationalized/scheduled bank for the like amount valid for a period of 01 year 02 months

Service Component:

- CAMC and Placement of Engineer:
- Payment will be released on quarterly basis against submission of the Ink Signed invoice in triplicate (Original, Duplicate and Triplicate) and subject to satisfactory performance.
- The following documents are to be accompanied while submitting the quarterly invoice:•
  - a. Joint Log Report for the quarter,
  - b. Attendance details of manpower deployed.

- c. Tax payment copies as applicable.
- d. Proof of back to back support from OEM (Wherever applicable)

If Sensor calibration of respective IRASIMET is not done before 3<sup>rd</sup> quarter for the particular year, the Successful Bidder will lose the CAMC & Calibration payments/charges forever for the subsequent quarters for the respective IRASIMET system. The payment if CAMC charges will be resumed only from the date of fitment of calibrated sensors in the respective ASIEMT system.

*Net payment will be released after statutory deductions, and no other payment terms will be considered.*

**Delivery Period :** Within 45 days from the date of acceptance of the PO

**Warranty Period:** 1 year warranty from the date of installation, commissioning & acceptance of the systems at each designated vessels

#### 5. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

### अस्वीकरण/Disclaimer

The Additional Terms and Conditions (ATC) have been incorporated by the Buyer after approval of their Competent Authority. The Buyer is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any restriction arising in the bidding process due to these ATCs and including the modification of technical specifications and / or terms and conditions governing the bid. All representations / grievances pertaining to the ATC clauses shall be raised with the buyer organization directly and not with GeM. If any of the clause(s) is/are incorporated by the Buyer regarding the following, the bid & resultant contract shall be treated as null & void. Further, GeM reserves the right, at its sole discretion, to cancel the bid forthwith, without issuance of any prior notice or intimation :-

1. Publishing Custom / BOQ bids for items for which regular GeM categories are available (unless such Custom / BOQ item is bunched with the major regular product Category Item).
2. Mandating procurement of / from specific Brand / Make / Model / Manufacturer / Dealer except in case of Single Bid / Proprietary Article Certificate (PAC) Buying.
3. Inclusion of disqualification criteria related to suspension of seller / service provider, where such suspension period has already expired.
4. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
5. Publishing bids on GeM for procurement of works.
6. Procurement of Goods by creating a Service bid on GeM & vice-versa.
7. Seeking sample with bid or approval of samples during bid evaluation process. However, trial / sample, as the case may be, shall be permitted in cases where trial / sample are allowed as per approved and published procurement policy of the Buyers' controlling Ministry / Department / State / Public Sector Enterprises Headquarters. If there is any violation of trial / sample clause with regard to approved policy of the Buyers' Ministry / Department / State / Public Sector Enterprises Headquarters, then this is to be determined and redressed by the concerned Buyer Organisation only.
8. Seeking experience from specific organization / department / institute only or from foreign / export experience.
9. Creating bid for items from incorrect categories.
10. Reference of conditions published on any external site or reference to external documents/clauses.
11. Asking for any Tender fee / Bid Participation fee, as the case may be.
12. Buyer added ATC Clauses which are in contravention of clauses defined in bid detail section, including specifications, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by the applicable GeM GTC.
13. Any ATC clause in contravention with GeM GTC Clause 4 (xiii) (h) will be invalid. In case of multiple L1

bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.

14. In a category based bid, adding additional items, through buyer added, additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogues or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

## **Additional Clause For Comprehensive Maintenance Charges**

1.CMC shall include preventive maintenance including calibration as per technical/ service /operational manual of the manufacturer, service charges and spares, after satisfactory completion of Warranty. During the CMC period commencing from date of the successful completion of warranty period, Service personnel shall visit each consignee site as recommended in the manufacturer's technical/ service /operational manual, at least once in six months or as per user requirement. Cost of consumables shall not be included in CMC. Further there will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.

2.CMC charges to be indicated as percentage of cost of equipment quoted for each year after the warranty period.

3.GST shall be included in the CMC Charges quoted.

4.Cost of CMC will be added for Ranking/Evaluation purpose with depreciation formula.A 10% discounting rate per year shall be applied on CMC Charges for price evaluation on Net Present Value.

5.The payment of CMC will be made on quarterly basis after satisfactory completion of said period, duly certified by end user.

6.While creating a bid or RA, buyers shall indicate whether CMC is required against Yes/No" options. If CMC Charges are included, an option for number of years for CMC required after the warranty period shall be available.Under this option up to 15 years can be chosen for CMC charges beyond warranty period.

7.In case the bid has a provision for CMC, the warranty of the product will also be deemed to have been converted into Comprehensive warranty including preventive maintenance and calibration as per technical/ service /operational manual of the manufacturer, service charges and spares, during the Warranty Period also. Sellers are therefore advised to include the cost of Comprehensive Warranty including spares (excluding consumables) also in product Cost.

8.The CMC functionality shall be available in bid only and no direct RA shall be applicable.In case of bid to R/A decrement rules shall be applicable on total price inclusive of CMC charges. Bunching of products shall not be available while creating bids with CMC charges.

8.1.Buyer shall indicate number of years of warranty by selecting different options available in the field depending on warranty parameter applicable in category parameters for the equipment. No. of years of warranty indicated here shall supersede the warranty period indicated elsewhere in bid or product specifications. The Seller while participating in Bid/RA will get fields to indicate CMC charges as percentage depending on number of years of CMC selected by Buyer. The following shall be applicable, if 5 year CMC selected:

CMC charges for 1st year after warranty period- Percentage to be indicated- A1

CMC charges for 2nd year after warranty period- Percentage to be indicated- A2

CMC charges for 3rd year after warranty period - Percentage to be indicated- A3

CMC charges for 4th year after warranty period - Percentage to be indicated- A4

CMC charges for 5th year after warranty period - Percentage to be indicated- A5

Similarly, A6 to A15 are to be indicated for 6th to 15th year of CMC if applicable.

8.2.The calculation of CMC Charges shall take into account the number of years of warranty and duration of CMC as specified while creating bid.

8.3.In the price evaluation, the system shall provide function to calculate the cost of each equipment by formula indicated below including CMC and then show the inter-se-ranking of the bidders. The following are the variables

(i) Number of years for which CMC required.

(ii) Number of years of product warranty

The formula for calculating total cost including CMC charges shall be as under:

Total Cost for evaluation=

$C+C*\{(A1/100)/(1.10^n)+(A2/100)/(1.10^{n+1})+(A3/100)/(1.10^{n+2})+(A4/100)/(1.10^{n+3})+(A5/100)/(1.10^{n+4})\}$  and so on

C - Cost for equipment quoted and n shall be number of years of product warranty specified.

If 2 year warranty specified, n shall be 2 and if 5 year warranty specified, n shall be 5. A1,A2, A3, A4& A5 shall depend on how many years CMC selected. For 3 year CMC, only A1,A2 and A3 factors are to be taken into account and A4 and A5 will not be applicable.

8.4.CMC charges offered for each subsequent year should be same or higher than preceding year.

8.5.The CMC charges shall be offered within range of 3 to up to 50% of cost of equipment as defined by buyer.

9.Since CMC charges are to be paid only later for each year during CMC period,applicable performance guarantee amount after placement of contract shall be based on the cost of equipment excluding the cost of CMC Charges.

10.Performance bank guarantee applicable for CMC is to be submitted at start of the CMC and shall be applicable between 2.5% to 10% as specified in bid on total CMC Charges.The PBG submitted after award of contract shall be released only after new PBG for the CMC period is submitted and accepted by buyer/consignee after due verification.Bank guarantee for CMC is to remain valid till completion of CMC period plus one year. The bank guarantee for CMC shall be submitted to buyer directly. In case, seller fails to submit the PBG or does not provide services for the CMC contract after expiry of warranty period then PBG of equipment shall be forfeited.

11.In case of splitting of order quantity, equipment cost and CMC charges offered by L1 bidder shall be matched by higher quoting eligible bidders on one-to-one basis.The equipment cost and CMC charges (year to year) shall be matched individually.

12.The CMC Contract shall be an offline contract to be handled by buyer.The payment of CMC will be made on quarterly basis after satisfactory completion of said period, duly certified by end user and scope of CMC will be as per para 1 above.

13.CMC Charges are inclusive of all the charges for Transportation, Lodging, Boarding, all insurances including third party insurance and all other incidental charges. The same shall include GST. The prices also include cost of spares and damaged parts. Purchaser does not have any liability, whatsoever, over and above the cost of CMC. It also includes for arranging hand tools & tackles, special tools etc. required to carry out the work.

**All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.**

**For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall continue to remain applicable.**

**The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:**

- All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and
- All operative provisions of the erstwhile Labour Laws until their complete substitution.

**All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law.**

**This Bid is governed by the General Terms and Conditions, conditions stipulated in Bid and Service Level Agreement specific to the Service, as the case may be, as provided in the Marketplace.**

**However, in case of Service, if any condition specified in General Terms and Conditions is contradicted by the conditions stipulated in Service Level Agreement specific to said Service, then it will over-ride the conditions in the General Terms and Conditions.**

यह बिड सामान्य शर्तों के अंतर्गत भी शासित है /This Bid is also governed by the General Terms and Conditions

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला

सक्षम प्राधिकारी के पास पंजीकृत हो।बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।/In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, 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. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---धन्यवाद/Thank You---

**Sub: Request for proposal for "Supply, Installation, Integration and Commissioning of 30 No. of Real Time Air Sea metrological (IRASIMET) and INSAT systems and with a one-year standard warranty and 3 year CAMC"**

Dear Sirs,

On behalf of Director, ESSO-INCOIS tenders are invited under "Two Bid System" (Part –I Techno Commercial Bid and Part –II Commercial Bid) from Potential Vendors with appropriate registration having adequate resources and setup dealing with Supply, Installation, Integration and Commissioning of 30 No. of Real Time Air Sea metrological systems (IRASIMET) systems.

<b>1.</b>	<b>Name of the work</b>	<b>Supply, Installation, Integration and Commissioning of 30 No. of Real Time Air Sea metrological (IRASIMET ) and INSAT systems and with a one-year standard warranty and 3 year CAMC</b>
<b>2.</b>	<b>BID Ref. No.</b>	INCOIS: PUR: 27/2025 dt. 01.06.2026
<b>3.</b>	<b>Earnest Money Deposit (EMD)</b>	Rs. 37,30,000/- (Rupees thirty seven lakhs and thirty thousand only)
<b>4.</b>	<b>Due date for seeking clarifications/Bid Extension Date</b>	19.06.2026 @ 11.00 am
<b>5.</b>	<b>Pre-Bid Conference (Online)</b>	22.06.2026 at 11.00 am at INCOIS ,Hyderabad
<b>6.</b>	<b>Due date for bid submission</b>	30.06.2026 at 15.00 am
<b>7.</b>	<b>Bid opening date</b>	30.06.2026 at 15.30 am

The offers, in the prescribed format, shall be submitted through online Government e- Marketplace at <http://gem.gov.in..>

<b>Postal/ Location Address</b>
Indian National Centre for Ocean Information Services INCOIS, Ministry of Earth Sciences, Govt. of India, Ocean Valley, Pragathi Nagar BO, Nizampet SO, Hyderabad 500 090, Ph.No.040-2388 6000

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**1. Introduction**

The Indian National Centre for Ocean Information Services (INCOIS), Hyderabad, an autonomous body under Ministry of Earth Sciences (MoES), Govt. of India is engaged in providing ocean information and advisory services. INCOIS deals with the projects related to tsunami early warning system, ocean state forecast, ocean observing systems, ocean modelling, satellite oceanography, coastal geospatial applications, ocean data and information management and web-based services relevant to societal needs.

- 2. Scope of Work:** Supply, Installation, Integration and Commissioning of 30 No. of Real Time Air Sea metrological (IRASIMET) and INSAT systems and with a one-year standard warranty and 3 year CAMC.

**3. Technical Specifications: IRASIMET modules specifications.****A. IRASIMET Sonic Wind Module:**

<b>Sensor :Ultrasonic Anemometer Specifications</b>			
Sno.	Category	Parameters	Details
<b>1</b>	<b>Wind Speed</b>	<b>Range</b>	0 – 90 m/s (0 – 201 mph)
		Starting Threshold	0.01 m/s
		Accuracy	±2% @ 12 m/s; ±4% @ 90 m/s
		Resolution	0.01 m/s
		Offset	±0.01 m/s
<b>2</b>	<b>Direction</b>	<b>Range</b>	0 – 360° (No dead band)
		Accuracy	±2° @ 12 m/s
		Resolution	1°
<b>3</b>	<b>Data Output</b>	<b>Rate</b>	1 – 4 Hz

		Parameters	UV, Polar, NMEA
		Units	m/s, knots, mph, kph, ft/min
		Averaging	Flexible & Block: 0 – 3600 seconds
4	Communication	Interface	RS422 / RS485 (Full or Half Duplex)
		Baud Rates	1200, 2400, 4800, 9600, 19200, 38400
		Formats	8-bit data; Odd, Even, or No parity
5	Power	Anemometer Only	20 – 30 VDC (60mA max, 50mA avg)
		Heating	Max 7A @ 24 VAC or DC
6	Mechanical	Construction	Stainless Steel 316
		Weight	≤1.7kg (with 2m cable) / ≤1.3kg (with connector)
		Protection	IP66 (NEMA4X)
7	Environmental	Operating Temp	-55°C to +70°C (with heating)
		Humidity	0% to 100% RH
		Precipitation	300mm/hr
8	Compliance	Standards	Traceable to National standards
		Cable	2m

**Notes:** Each measurement takes 250msec, so the base sample rate is 4Hz. There is overhead involved to output the data at the end of a sampling burst, resulting in 15 samples in a 5 s interval (3 Hz).

#### B. IRASIMET Infrared Thermometer (continuous recording type):

Infrared Radiometer Specifications			
Sno.	Category	Parameters	Details
1	Sensor Type	Core Technology	Thermopile and thermistor
2	Performance	Absolute Accuracy	±0.2°C (-10° to +65°C); ±0.5°C (-40° to +70°C)
		Uniformity	±0.1°C (-10° to +65°C); ±0.3°C (-40° to +70°C)
		Repeatability	±0.05°C (-10° to +65°C); ±0.1°C (-40° to +70°C)
		Response Time	< 1 s (to changes in target temperature)
3	Signal & Power	Input Power	2.5 V excitation (for thermistor)
		Target Temp Output	60 µV per °C difference from sensor body
		Body Temp Output	0 to 2500 mV
4	Optical	Optics	Germanium lens
		Wavelength Range	8 to 14 µm
		Field of View (FOV)	22° half angle
5	Environmental	Operating Temp	-55° to +80°C
		Operating Humidity	0 to 100% RH
6	Mechanical	Size	Diameter: ≤2.3 cm (0.9 in) / Length: ≤6 cm (2.4 in)
		Weight	≤190 g

#### C. IRASIMET Barometric Pressure Module:

Ceramic Pressure Sensor Specifications			
Sno.	Category	Parameters	Details
1	Sensor Performance	Sensor Type	Ceramic sensor
		Measurement Range	800 to 1100 mb
		Accuracy	±0.3 mb
		Resolution	0.01 mb
		Annual Drift	0.1 mb (post vs. pre-calibration)
2	Sampling & Output	Response Time	1 second

		Sampling Rate	Up to 1 sample per second
		Output Variables	Pressure (mb)
		Communication	Analogue
3	Electrical	Input Power	+10 VDC to +15 VDC
		Current Draw	4 mA (average)
4	Physical	Housing Material	Stainless Steel
		Dimensions	3.6 x 2.4 x 1.0 in
		Weight	< 150 g

#### D. IRASIMET Precipitation Module:

Self-siphoning Rain Gauge Specifications			
Sno.	Category	Parameters	Details
1	Sensor Performance	Sensor Type	Self-siphoning rain gauge
		Measurement Range	0 to 50 mm
		Threshold	1 mm
		Accuracy	±1 mm
2	Sampling & Output	Output Variables	Water level (mm)
		Communication	Analogue
		Sampling Rate	Up to 1 sample per second
		Minimum On-time	3 minutes
3	Electrical	Input Power	+10 VDC to +15 VDC
		Current Draw	3.0 mA (average)
4	Physical	Catchment Diameter	≤113 mm
		Height	≤65 cm
		Weight (in air)	< 2.5 kg

**Notes:** Calibration is done by adding successive, known volumes of water. Calibration constants are stored in the EEP

#### E. IRASIMET Shortwave Radiation Module (SWR)

##### Specifications

- Sensor: Thermopile
  - Range: 285 to 2800 nm, Resolution: 1 W/m<sup>2</sup>
  - Sensor Output: upto 4000 W/m<sup>2</sup>
  - Non-linearity (100 to 1000 W/m<sup>2</sup>): <0.2%
  - Drift (post vs. pre calibration after 1 yr): < 0.5%
- Physical:
  - Housing: Diameter ≤15 cm, Height: ≤9.3 cm
  - Weight in air: <1 kg
- Electrical:
  - +10 vdc to +15 vdc
  - 1.0 ma average current
- Sampling:
  - Response time (63%): <0.2 sec
  - Single samples at up to once per second
  - Output variables: shortwave radiation (W/m<sup>2</sup>)
- Communications:
  - Analogue or RS485

**Notes:** The gain adjustment and calibration of the sensor electronics are made separately. The complete assembly is calibrated outside in sunlight against a traceable standard. Combined calibration constants are stored in the unit EEPROM.

#### F. IRASIMET Longwave Radiation Module (LWR)

##### Specifications

- Sensor: Precision Infrared Radiometer (PIR)
  - Spectral Range: 4.5 to 42  $\mu\text{m}$ , Resolution: 1  $\text{W}/\text{m}^2$
  - Output Range: -250 to 250  $\text{W}/\text{m}^2$
  - Non-linearity (-250 to 250  $\text{W}/\text{m}^2$ ): <1%
  - Drift (post vs. pre calibration after 1 yr): <1%
  
- Physical:
  - Housing: Diameter  $\leq 15$  cm, Height:  $\leq 7.65$  cm
  - Weight:  $\leq 700$  g
- Electrical:
  - +12 vdc to +15 vdc
  - 1 ma average current
- Sampling:
  - Response time: <18 s
  - Single samples at up to once per second
  - Output variables: body temperature, thermopile voltage (V) and longwave radiation flux ( $\text{W}/\text{m}^2$ )
- Communications:
  - Analogue or RS485

**Notes:** The laboratory standard electronics calibration procedure used. The complete module is then verified outdoors by comparison to a traceable standard. Calibration constants are stored in the unit EEPROM.

#### **G. ASIMET Relative Humidity & Air Temperature Module (TRH)**

##### **Specifications**

- Sensor: RTD (PT100)
  - Range: 0 to 100 %RH, -40 to +60  $^{\circ}\text{C}$
  - Resolution:  $\pm 1$  %RH (5...95 %RH)  $\pm 2\%$  RH < 5 %, > 95 % RH
  - Accuracy: 0.8%RH, 0.1  $^{\circ}\text{C}$
  - Drift (post vs. pre cal after 1 yr): 1%RH
  - Reproducibility Humidity: < 0.5% RH ,Temperature: <0.1 $^{\circ}\text{C}$
  - Output signals: Humidity:0...1 VDC = 0...100 %RH and Temperature -0.4...+0.6 V DC= -40...+60  $^{\circ}\text{C}$
  - Time constants:Humidity< 10 s Temperature < 15 s
  - Load per output > 1000 Ohms and sensor protection: Wire filter
- Physical:
  - Housing: Stainless Steel Diameter 15 mm, Length 108mm
  - Weight: 50g
- Electrical:
  - 5 to 15 vdc
  - 5 ma average current
- Sampling:
  - Response time: 15s (with membrane filter)
  - Single samples at up to once per second
  - Output variables: relative humidity (%RH), temperature ( $^{\circ}\text{C}$ )
- Communications:
  - Analogue

#### **H. IRASIMET Digital device for on-site recorder and report preparation system(Two numbers)**

Paper Tablet with Marker Plus Pen with Eraser Gray

Battery:  $\geq 10$  days average life and capacity  $\geq 5000$  Milliamp Hours

Processor: with speed  $\geq 1.6$  GHz

Dimension:  $\leq 550$  g weight and  $\geq 27.0$  cm Length,  $\geq 19.0$  cm Width and  $\leq 0.75$  cm Thickness

Screen: Touchscreen with Stylus Support and  $\geq 11.5$  Inches size,  $\geq 16:9$  Aspect Ratio and display resolution of  $\geq 2000 \times 1500$  Pixels. Human Interface:

Memory:  $\geq 16$  GB of storage capacity and  $\geq 2$  GB of RAM

Connectivity: USB Type C hardware interface and Bluetooth compatibility

## I. IRASIMET GPS Receiver:

### Specifications

- Receiver: WAAS enabled. 12 parallel channel GPS receiver continuously tracks and uses up to 12 satellites (up to 11 with PPS active) to compute and update the position.
- Receiver sensitivity : -185dBW minimum
- Acquisition Time:
- Cold start : better than 50 secs
- Warm start : better than 40 secs
- Re acquisition : less than 2 secs
- Accuracy:
  - GPS Standard Position Service (SPC)
  - Position: less than 15m 95% (without DGPS)
- Time accuracy: equal or better than 10 $\mu$ s
- Interface: RS232
- Power supply: 8-16V DC, current less than 65 ma at 12V DC
- Operating temperature: -20°C to +60°C

## J. IRASIMET processing system at INCOIS with dedicated internet (One Number)

### Specifications:

1. Dedicated public IP needs to be provided along with 4 years of internet facility (a sperate lease line for continuous data access)
2. Complete System Processor: AMD EPYC 4124P 4C/3.8G/65W(Standard) $\geq$  3.8 Ghz.
3.  $\geq$ 16GB TruDDR5 5600MHz (1Rx8) ECC UDIMM-A
4.  $\geq$ 2TB Client 7.2K SATA 6Gb Non-Hot Swap 512e HDD(Standard)
5.  $\geq$ 2x NVMe M.2 support /1x 1GbE Embedded
6. AMD PRO 665 AHCI Mode(Standard) X Clarity Provisioning Manager Lite Broadcom 5719 1GbE RJ45 4-Port PCIe Ethernet Adapter (Standard)
7. 300W 230V/115V Gold ATX Power Supply.

## K. IRASIMET High-Performance Programmable Data Logger System (HPDLS) Specifications:

A High-Performance Programmable Data Logger System (HPDLS) complete with telemetry, software, calibration certificates, and all necessary accessories for field deployment.

A single HPDLS should be used and should support fast and slow sensors simultaneously and be capable of generating independent data tables.

### 1. Processor & Measurement Performance

- High-speed processor 32-bit hardware Floating Point Unit (FPU) with analog measurement capability:  $\geq$ 300 Hz
- Maximum scan rate: **Up to 1000 Hz**
- Analog-to-Digital Conversion Resolution: **24-bit or higher**
- Analog Measurement Resolution: **15  $\mu$ V**
- Programmable Sampling Frequency: Milliseconds to minutes (user configurable for all analog & digital channels)
- Programmable Logging Intervals: Milliseconds, seconds, minutes, hourly, daily
- User-programmable equations (Example: Wind corrections...etc.)

### 2. Analog Inputs & Measurement Specifications

#### 2.1 Analog Channels

- 16 Single-ended or 8 Differential Analog inputs
- Multiple Input Voltage Ranges to measure the sensors accuracy without any loss of accuracy of measurements:0-5volt DC
  - $\pm$ 5000 mV
  - $\pm$ 1000 mV
  - $\pm$ 200 mV
- Minimum 2 additional 4–20 mA current inputs (plus16 Single-endedchannels)

#### 2.2 Accuracy

- $\pm$ 0.04% of reading + offset (0°C to 40°C)
- $\pm$ 0.06% (-20°C to +70°C)

- General Analog Voltage Accuracy:  $\pm 0.08\%$  of reading + offset

### 3. Digital & Communication Channels

#### 3.1 Digital Channels

- Frequency Type: 4 Channels
- Counter Type: 2 Channels
- Convertible Counter  $\leftrightarrow$  Frequency channels
- Digital I/O: 8 configurable terminals
- Pulse Counters: 10
- SDI-12 Input: 4 Channels
- Digital channels support RS-232, RS-485.

#### 3.2 Excitation & Output

- Minimum 3 excitation channels (compatible with potentiometer, PT1000, thermistor)
- 4 Voltage excitation terminals
- 2 Switched 12V outputs
- Regulated 12 Vdc output

#### 4. Real-Time Clock (RTC)

- Resolution: 1 millisecond
- Accuracy:  $\pm 3$  min/year
- GPS correction accuracy:  $\pm 10 \mu\text{s}$  (minimum  $\pm 50 \mu\text{s}$  requirement)
- Battery-backed RTC during power failure

#### 5. Memory & Data Storage

- RAM: Minimum 4 MB battery-backed SRAM
- Internal Flash Storage: Minimum
- External Storage: Micro-SD support minimum 16 GB
- Storage Capability: 30-minute interval data for >1 year
- Data downloadable with date & time stamps

#### 6. Communication Interfaces

##### 6.1 Physical Ports

- 1  $\times$  USB (USB-C)
- 1  $\times$  Ethernet (10/100 Mbps) with magnetic isolation & TVS surge protection
- 4  $\times$  RS-232
- 4  $\times$  RS-485 (Modbus channels)
- RS-422

##### 6.2 Supported Protocols

- Ethernet, TCP/IP (IPv4/IPv6)
- PPP
- TCP/UDP
- HTTP(S)
- FTP(S)
- SNMPv3
- SDI-12
- Modbus
- DNP3
- NMEA 0183
- SPI, I2C

##### 6.3 HPDLS Communication

- TCP/IP Network (Ethernet, GPRS, 4G/5G, etc.)
- RS-232 / RS-485 cable

#### 7. Telemetry & Remote Access

- GSM/GPRS/4G/5G Telemetry
- Data transmission through 4G / 5G modem and INSAT transmitter (if network unavailable) via separate channels
- Compatible with INCOIS INSAT transmitters
- Compatible with Argos, Inmarsat and Iridium
- Email alerts
- FTP data transmission

- Remote configuration (instrument setup, data extraction, flash files, analysis)
- Remote access via internet (User ID & Password protected)
- No mandatory external cloud dependency
- Direct USB password-protected configuration
- Remote program modification & password change
- Remote access via:
  - PC/Laptop (dynamic IP supported)
  - Android & iOS mobile applications
- Numerical & graphical display software
- Real-time and historical data access via mobile app

#### **8. Power Specifications**

- Input Voltage: 10–36 Vdc
- Idle Current Drain: <2 mA @ 12 Vdc
- Surge, overvoltage, over current & reverse polarity protection

#### **9. Environmental Specifications**

- Operating Temperature:
  - Standard: –20°C to +70°C
  -
- Humidity: 0–95% RH

#### **10. Mechanical & Build**

- Material: Anodized aluminum enclosure (logger should be enclosed with)
- Protection: IP-65/ IP-66
- RF Shielding: Stainless steel canister with gold-coated connectors

#### **11. Calibration & Self-Diagnostics**

##### **11.1 Factory Calibration**

- Mandatory recalibration every 3 years
- Includes:
  - Input terminals
  - Communication ports
  - Operating system
  - Memory verification
  - Internal battery replacement
- Mandatory Calibration Certificate

##### **11.2 Calibration Wizard**

- Accessible via configuration interface
- Supports field calibration instructions
- Uses Cal files matching running program
- Step-by-step guided calibration

##### **11.3 Background Calibration**

- Internal voltage reference for self-calibration
- Automatic compensation for temperature & aging
- Disabled during high scan rates
- Override via instruction
- Annual background calibration certification required.

##### **11.4 Field Calibration Options**

- Zeroing
- Offset
- Two-point multiplier & offset
- Two-point multiplier only

1. The HPDLS must be compatible with INSAT transmitters and should have a similar deployment, with relevant experience documents to be submitted as part of the experience criteria
2. HPDLS shall have the facility to switch between 5G telemetry modem to INSAT in case of network unavailability.
3. Application software with foreign origin having servers outside India is not allowed and technically will be disqualified

#### 4. **Other Requirements:**

- The HPDLS should be able to send data as per INCOIS sampling strategies.
  - Provide Interconnecting cables
  - Unit service availability in India.
  - Display: Shall be provided
  - HPDLS should have a provision to store the data in its internal buffer during an event of non-availability of GPRS signal. Whenever the signal strength is restored, such data should be transmitted through FTP.
  - User manual-2 sets of Hard and soft copies each
  - User friendly online/offline web-page based configuration shall be possible through both Ethernet and Wifi connections. Local data download via embedded webpage and USB/ethernet
  - HPDLS should have Over the Air Firmware Updating capability
  - HPDLS should be accessible by secured remote connection from Desktop & Mobile App
  - The HPDLS must be capable of pushing logged and converted data files to three separate FTP servers.
  - The HPDLS must support email alerts for various functions such as tracking, power, reboots, logging, status, etc.
  - Training: Detailed training on Polyfunctionality and using of software.
5. The quoted HPDLS IRASIMET system should have been working for sea level measurement/ AWS/weather systems in the last 10 years in India.
6. Proven with INCOIS INSAT transmitter (Refer UHF transmitter specifications):The quoted HPDLS should have been working with INCOIS INSAT transmitters in the last 10 years in Indian waters/AWS/weather systems. The Successful Bidder needs to submit the details of working experience and installation reports and details should be independently verifiable.
7. Power Budget: Logger alone: per day less than or equals to 1400mA and All modules with communications: per day less than or equals to 5200mA (Enclose your quoted power budget calculation sheet).
8. Satisfactory project completion certificate for the AWS/weather systems supplied by the bidders is mandatory to consider the relevant experience. The Successful Bidder needs to submit the details of previous experience and installation reports and details should be independently verifiable.

#### **L. IRASIMET Graphical Display**

##### **Specifications:**

- Processor: ≥3.7 GHz burst speed
- Operating System: Windows 11 Pro (multi-language support)
- Graphics: IntelGen12 UHD Graphics

##### **Memory & Storage**

- RAM: 16 GB
- Storage: 256 GB
- Expansion: Micro SDXC card slot

##### **Connectivity**

- Wi-Fi: Wi-Fi 6 / 6E (802.11 ax)
- Bluetooth: v5.3 + EDR, BLE support
- Cellular: 4G LTE
- Ports:
  - USB-A ,USB-C, Optional RS-232 9-Pin D-Sub
  - 12V DC power input

##### **Battery**

- Main Battery: Removable ≥40Wh Li-Ion

##### **Display & Touch**

- Size:≥ 7-inch
- Brightness: ≥800 NITS
- Touch screen: Projected capacitive, usable with gloves/stylus/wet conditions
- Glass: Chemically strengthened

##### **Camera**

- Rear: 13 MP with LED flash and Front: 5 MP

Sensors built in: Compass, Accelerometer, Gyroscope, Ambient Light Sensor

**Rugged Features**

- IP Rating: IP68 (dustproof & waterproof)

**Other Features**

- Display data in table and graph modes
- Temporary chart and graphs
- Compare data among stations
- Compare graphs of the same parameters from several stations
- compare graphs of various parameters from one station
- Export to Excel and Access
- Export graphics to JPEG, etc., images and to the clipboard
- Application software with foreign origin having servers outside India is not allowed and technically will be disqualified

**M. INSAT UHF Transmitter specifications :**

Supply, Integration, Installation, testing and commissioning of 30 No.s of INSAT UHF transmitters for real time IRASIMET application.

S.No	Parameter	Specification
1.	Output frequency	402MHz – 403 MHz
2.	Output frequency settable	100 Hz step
3.	Frequency stability over temp	Better than 1 ppm/year
4.	Spurious	>45dBc (In-band)
5.	Harmonic Level	>30dBc
6.	Output Power	8 W minimum at antenna input
7.	Antenna	Hemi-spherical coverage antenna, LHCP. As these antennas are installed on ships, they should be rugged to withstand ship movement, vibrations and harsh marine conditions.
8.	Input data	ASCII data from data logger
9.	Modulation	BPSK
10.	Transmission rate	300 bps/1.2/2.4/4.8 Kbps (user programmable)
11.	Transmission protocol	TDMA (mm:ss)
12.	Transmission Interval	30 min. (configurable) for IRASIMET and 3 min. (configurable) for Tide gauges
13.	Time of transmission	Time slot should be user programmable. Timing synchronized with GPS receive time
14.	Error detection polynomial	16 bits, CCITT – 16
15.	Supply Voltage	12V DC nominal
16.	Operating temperature	0°C to +50°C
17.	Package	Outdoor, harsh marine environment, IP66 with MIL Grade & waterproof connectors
18.	Enclosure	Should be tower mount, rust proof and marine grade.
19.	Demodulator	Successful Bidder has to supply a suitable Demodulator, which is compatible to supplied INSAT UHF transmitters for reception of real time data at INCOIS Hub station. Note: INSAT UHF transmitter and Demodulator should be of same make for ease of data reception.

**Transmitter Factory Acceptance Test:** Testing the transmitter at OEM/Successful Bidder site through satellite link with sample data and successful data reception at INCOIS INSAT Hub through the supplied demodulator. Integration of Data logger with INSAT UHF transmitter is the responsibility of successful bidder and necessary bench level & satellite link tests should be carried out at INCOIS. Test data should be received at INCOIS Hub before through supplied dedicated demodulators before proceeding for deployment/installation in the ships.

**Burst Demodulator specifications:**

Supply Installation, testing and commissioning of 2 No.s of Burst demodulators for real time IRASIMET application. The supplied demodulator should be compatible with the supplied INSAT UHF transmitters and real time data reception at INCOIS Hub.

S.No	Parameter	Specification
1.	Input Frequency	74MHz±10MHz
2.	Input signal level range	-45 to -55 dBm
3.	Step Size	1KHz
4.	Frequency Uncertainty	±4KHz
5.	Dynamic range	±5dB
6.	Type of Modulation	BPSK (Burst)
7.	Data rate	300 bps/1.2/2.4/4.8 Kbps (user programmable)
8.	Input connector	BNC Female
9.	Output	RS-232
10.	Power supply	230V AC
11.	Operating temperature	0-50°C
12.	Unit size	Standard 19" Rack, upto 2U Height

AC to DC converter for transmitter power on ships should be included.

INCOIS will provide INSAT satellite details and frequency details to the successful bidder.

INCOIS will provide the dedicated slot details to successful bidder for programming the INSAT transmitter units for real time communication.

Prior intimation to INCOIS for real time data transmission from OEM / field location.

The bidder, OEM of Transmitter & Demodulator, should deploy the manpower at INCOIS while setting up the demodulators at INSAT chain for real time data reception.

Note: Integration of HPDLS with INSAT UHF transmitters and necessary bench level & satellite link tests should be carried out at INCOIS. Test data should be received at INCOIS Hub before proceeding for deployment.

**N. Data Communication to INCOIS base station with INSAT and GPRS**

1. Data Transmission interval: It should be configured for every 30 minutes of INSAT data. The GPRS transmission programmable to transmit for 1 minute, 3 minutes, 10 minutes and 30 minutes of all the data parameters acquired by the HPDLS and user definable intervals for GPRS.
2. All costs related to GPRS/4G/5G data transmission, including:
  - o SIM card procurement
  - o Data plan subscription
  - o Activation charges
  - o Roaming charges (if applicable)
  - o Renewal / recurring charges
 shall be borne entirely by the successful bidder/Successful Bidder.
3. The bidder shall ensure uninterrupted data communication for the entire contract / warranty period and CAMC period.
4. No additional payment shall be made by the INCOIS towards GPRS/telemetry data charges during the contract period.
5. Any disruption due to non-payment of telecom charges shall be the sole responsibility of the Successful Bidder.
6. All costs associated with INSAT data transmission, including, INSAT bandwidth charges and Satellite usage fees shall be borne by INCOIS.
7. The IRASIMET system should send the data in Real time to INCOIS, incase non availability of GPRS signals, it should switch over to INSAT. And in case of non-availability of INSAT signals, it should switch over to GPRS. The failure to provide these technical capabilities treated as technically disqualified and such bids will not be considered for further evaluation process.
8. The IRASIMET system and its real time system, should work 15 days without interruption of data to INCOIS in absence of ship power supply. The same will be verified during the technical demonstration at INCOIS, Hyderabad.
9. All the parameters of IRASIMET systems are to be displayed in the vessels wheelhouse for navigation purpose.

#### **4. Comprehensive onsite Annual Maintenance Contract (CAMC)**

Comprehensive onsite AMC for a period of three years and subsequently may be extended based on the annual performance reviews to be availed to all the components IRASIMET network i.e., Communication Interfaces and software. The major sensors/components part of IRASIMET is provided above.

- Transportation of spares/components either to vessel/ship or to INCOIS with adequate transit insurance cover. The safe packing of sensors/systems should be ensured before transportation.
- Quarterly visit to vessels for periodic maintenance and break down maintenance with in latest availability schedule of vessel at any Indian port and submit the service reports to INCOIS.
- Ensuring data quality and reception at INCOIS hub and at local display. Ensure quality assurance in the project by analyzing monthly sensor performance reports provided by INCOIS.
- Confidentiality and Non – Disclosure Agreement : The Successful Bidder shall keep confidential and shall not, without the written consent of INCOIS, divulge to any third party any documents, data or other information furnished directly or indirectly. Here to in connection with the Contract, weather such information has been furnished prior to, during or following termination of the Contract.
- Submitting offline data downloaded from IRASIMET to INCOIS on quarterly basis and abiding to the time-to-time data sharing policy of INCOIS as mentioned in the above non-disclosure agreement.
- Inspecting the mast & support structures for corrosion / stability and providing certification for physical stability along with photographs in the quarterly service report. Yearly Painting / Replacement of masts to ensure safety of the structure.
- Following the health & safety protocols, wearing personal protective equipment as per the norms directed / followed at deputed site.
- Commissioning & decommissioning: Relocating the IRASIMET system in Case Ship is decommissioned or if there is an operational need for the same from INCOIS.
- The Successful Bidder needs to depute dedicated and qualified service personnel for the calibration and on-site maintenance of IRASIMET.
- The progress of the CAMC will be periodically reviewed. The Successful Bidder need to depute senior officials representing the organization for periodic project reviews at INCOIS.
- Any change requested by INCOIS which does not increase either the price or the schedule, shall be implemented.
- Successful Bidder is responsible to keep cordial relationships with the ship owners/crews /agents.
- The Successful Bidder needs to keep the necessary spares and infrastructure to assure maximum uptime as per the quality of the service.
- The Successful Bidder needs to provide services on breakdown of IRASIMET immediately. If breakdown happens during sailing of vessel, maintenance of IRASIMET need to be done at next port of call in India. Meanwhile, vessels shall be contacted over mail and attempts shall be made to solve the problem remotely.
- The Successful Bidder should be in touch with the contact points from each ship to get the arrival and departure details of the ship.
- The Successful Bidder shall provide training for technical officials onboard ships for first level troubleshooting of IRASIMET.
- The Successful Bidder needs to provide reports to INCOIS by e-mail & letters, with format and scope specified mutually periodically.
- The Successful Bidder need to keep all the information related to the project confidential and shall not divulge any documents, data, or any information without written consent of INCOIS.
- Any up gradation (Hardware & Software)/ obsolete items on the IRASIMET need to be communicated with INCOIS in advance. Replacement / restorations to be extended on free of cost basis without creating data gap.
- The release of CAMC payment will be subject to submission of service reports endorsed by vessel authorities/site in-charge.
- The nonfunctional sensor replaced on initial breakdown shall be returned to INCOIS. At the end of the contract, The Successful Bidder should hand over the fully operational system to INCOIS.

#### **5. Calibration of Sensors:**

- For all sensors other than radiation sensors, calibration should be carried out at least once in a year and for radiation sensors (SWR & L WR) can be calibrated once in two years.
- Calibration should be done either at Indian Meteorological Department (IMO) or an authorized institute in India or abroad which is agreeable to INCOIS.
- The payment towards calibration must be born by the Successful Bidder.
- Submission of calibration reports from OEM /calibrating agency is mandatory for the payments.
- All the calibration must be completed before completion of 3rd quarter from the date of commencement of CAMC order.
- If Sensor calibration of respective IRASIMET is not done before 3rd quarter, the Successful Bidder will loose the CAMC & Calibration payments/charges forever for the subsequent quarters for the respective IRASIMET. The payment of CAMC charges will be resumed only from the date of fitment of calibrated sensor in the respective IRASIMET.
- In case, if it is not possible to calibrate the sensors, the Successful Bidder should replace the respective sensor with similar or compatible make and model which has a valid calibration.
- Certification of calibration for each sensor should be produced to INCOIS as mentioned in the service level agreement. The replacement of calibrated sensors/systems in vessels should be carried out without creating data gap of not more than 48 hours. The Successful Bidder should keep enough quantity of spare IRASIMET Units to avoid data gaps.

#### **6. Placement of Engineer at INCOIS:**

- Engineer's Qualification: B.E/B. Tech in Electronics and communication Engineering
- Experience: Minimum 3 years of experience in working with AWS systems.
- The Engineer Deputed should have excellent coordination skills
- Daily status report of IRASIME in log book and monthly report.
- Preventive maintenance reports , identifying the outstanding the issues, monitoring the quality of the data activities if his/her,
- \*Submission of Commissioning/De-Commissioning/site inspection reports.
- \*Getting update of ETA, ETD, port of call, dry dock period and tentative schedules through Vessel Management Cell(VMC)
- \*Co-ordination&monitoring withhis/her officeservice teamstowardsaccomplishmentofassignedtasks.
- \*Arranging review meetings to monitor the project progress
- \*Coordination for police verification & island permits Port entry pass arrangements for both technicians and materials.
- \*Testing of equipment at INCOIS/his/her office.
- \*Availing configuration of transmitter from INCOIS.
- \*Monitoring of data reception during installation and maintenance
- \*Coordination for NOC / Declaration / Permission letters for Maintenance and commissioning activities to port authorities / CISF / Customs Coordination with IMD and other calibration agencies, Coordination for Material import / export,
- \*Tracking of missing items of IRASIMET (ifany) at different sites ,reporting to INCOIS and assisting investigationcommittees.
- TransportationofINSATtransmitters/antenna toIndianOEM/INCOISforrepair&necessarycoordinationfor repairservices.
- Engineer should attend on all working days of INCOIS. In case of the official's absences, replacements to be arranged by the Successful Bidder. If the absence of the engineer is more than 10 days, the Successful Bidder will lose the payment of CAMC for that quarter.

#### **7. Support from INCOIS**

- INCOIS will provide office space to host one engineer at INCOIS campus.
- INCOIS will provide computers for data acquisition and storage space
- INCOIS will issue official letters for logistic arrangements & port clearances
- INCOIS will define the checklists to monitor health of the instruments/sensors.
- INCOIS will provide monthly quality reports indicating sensor wise performance pertaining to IRASIMET .The protocolsused for data quality checkisavailable at (will be provided to successful bidders)
- INCOIS will be responsible for providing all relevant information and administrative support deemed necessary for execution of the contract.

- INCOIS would permit the visits by the Successful Bidder to vessels. If such visits are permitted, all the other arrangements for the visits are to be made by the Successful Bidder after contacting the local point of each ship.
- INCOIS will provide access for monitoring the real-time Data monitoring systems from IRASIMET to the engineer deputed at INCOIS.

**8. IRASIMET Quality of Service & Penalty Clauses:**

**CAMC of IRASIMET system:**

“Quality data” meaning: INCOIS follows the quality assessment of the data of IRASIMET, if the data quality not satisfactory it will be considered as 0% quality data or NIL data from the respective IRASIMET system. For example, temperature sensor values measures beyond the range of sensor or unusable values or repeated constant values such data treated as 0% data or nil data of respective IRASIMET. The data quality evaluation list for IRASIMET will be provided to successful bidders.

- The Successful Bidder should ensure minimum 80% quality data available from each calibrated sensor of IRASIMET system subject to availability of good transmission means, dry dock, availability of vessel and gate passes at Indian port. The Successful Bidder is liable to pay to INCOIS for the losses of data if above projections are not met. In the absence of real time data, the offline data stored in the IRASIMET system will be considered for penalty calculations for the particular quarter and satisfactory services.
- The CAMC and placement of Engineer charges will be released on quarterly basis upon completion of each quarter within 15 working days upon production of Pre-Received Bill/Invoice, service report, log report and data for the quarter.
- No Payment/No Penalty for Dry dock (or) non availability of vessels beyond one quarter.
- The Penalty payable for non – satisfactory services as below.

Quality data Availability (%) from each IRASIMET system	Penalty payable to INCOIS
80-100	No penalty
70-79	10% CAMC charges/quarter
60-69	20% CAMC charges/quarter
50-59	30% CAMC charges/quarter
Below 50	90% CAMC charges/quarter

**9. Calibration of sensors:**

- If no calibration is done in the stipulated period, the subsequent CAMC charges will not be considered for release of payment
- If Sensor calibration of respective IRASIMET is not done before 3<sup>rd</sup> quarter for the particular year, the Successful Bidder will lose the CAMC payments/charges forever for the subsequent quarters for the respective IRASIMET system during the contract period. The payment of CAMC charges will be resumed only from the date of fitment of calibrated sensor in the respective IRASIMET system.

**Breakdown maintenance:** During any break down / not working, the Successful Bidder will attend emergency Breakdown calls at short notices. There will be no restriction on number of Breakdown Maintenance visits per month /year due to the critical nature of the network.

**Other Important conditions:**

- Availability of necessary spares all the time for smooth maintenance of the network.
- The selected Successful Bidder has to provide the list of Engineer In-Charge & Engineer details of the project to INCOIS for time to time coordination.

**10. List of Deliverables:**

**A. Material Components**

SL No	Item description/ configuration	Quantity
1	IRASIMET Sonic Wind Module	30
2	IRASIMET Infrared Thermometer	30
3	IRASIMET Barometric Pressure Module	30
4	IRASIMET Precipitation Module	30
5	IRASIMET Shortwave Radiation Module	30
6	IRASIMET Longwave Radiation Module	30
7	ASIMET Relative Humidity & Air Temperature Module (TRH)	30

8	IRASIMET Digital device for on-site recorder and report preparation system	02
9	IRASIMET GPS Receiver	30
10	IRASIMET processing system at INCOIS with dedicated internet	01
11	IRASIMET High-Performance Programmable Data Logger System (HPDLS)	30
12	IRASIMET Graphical Display	30
13	INSAT UHF Transmitter	30
14	Burst Demodulator	02

**B. Service Components:**

SL No	Item description/ configuration	Quantity
1	1 <sup>st</sup> Year CAMC of complete IRASIMET along with INSAT systems after completion of Standard Comprehensive warranty	12 months
2	2 <sup>nd</sup> Year CAMC of complete IRASIMET along with INSAT systems after completion of 1 <sup>st</sup> year CAMC	12 months
3	3 <sup>rd</sup> Year CAMC of complete IRASIMET along with INSAT systems after completion of 2 <sup>nd</sup> year CAMC	12 months
04	De-commissioning charges other than 30 IRASIMET including INSAT system	01 set
05	Commissioning charges for other than 30 IRASIMET including INSAT system	01set

**11. List of designated Sites:**

30 vessels, which operates from Indian coasts. (The list will be provided to only successful bidders).The installation locations may change periodically depending on the port of call and movement schedule of each ship. Accordingly, the bidders shall coordinate activities at the applicable port location during execution.

**12. Eligibility Criteria:**

Only those bidders fulfilling the following criteria should respond to the tender.

- 1) The Bidder must be a Company registered under Indian Company Act 1956 or a registered firm. Registration certificate to be submitted. Proofs for Registration of company, PAN and GST certificates to be submitted.
- 2) The Bidder should provide profile of their company including its infrastructure, technical manpower and their expertise.
- 3) Product catalogues / data sheets of the items offered and make and model for the line items to be submitted. Without any Data sheets/catalogue and requested technical details missing/not provided in Data sheets/catalogue such bids will be rejected.
- 4) Bidder should have past 5 years' experience in of similar such as Indian vessels/ AWS/weather systems. The Successful Bidder needs to submit the details of working similar nature of works experience and installation reports and details should be independently verifiable. Satisfactory project completion certificate from client is mandatory to consider the relevant experience. The Successful Bidder needs to submit the details of previous experience and installation reports and details should be independently verifiable.
- 5) **Non-Blacklisting Declaration** Self-declaration that the firm is not currently blacklisted or debarred by Ministry of Earth Sciences or its Organizations self-declaration signed and stamped by the authorized signatory.
- 6) **Solvency / Banker's Certificate** Solvency certificate should be submitted by bidder from a Scheduled Commercial Bank. The certificate must not be older than six months from the bid due date.

Certificates from cooperative banks are not acceptable. Proof required: Original or attested copy of Banker's Solvency Certificate from a Scheduled Commercial Bank.

- 7) Bidder should have past experience in similar nature of works of similar volume Bid (such as Indian vessels/ AWS/weather systems) in last five years ending previous day of last date of submission of the online Bid, out of which
  - a. one work of value Rs.14.92 Crores or above or
  - b. two works each of value Rs.9.33 Crores or above or
  - c. three works each of value Rs.7.46 Crores or above. Client certificates/Work Completion Certificate/ Experience certificate along with the P.O no. as a reference to be enclosed in this regard.
- 8) The quoted HPDL should have been working with the INSAT (Refer UHF transmitter details system and 10 years INSAT working experience should be provided.
- 9) All the parameters of IRASIMET systems are to be displayed in the vessels wheelhouse for navigation purpose.
- 10) The Bidder should have an average annual financial turnover of Rs.9.33 Crores (Rupees nine crore thirty three lakhs only)-or more during the last three years ending March 31, 2025. Proof of turnover and Proof of annual profit certificate issued by the chartered accountant to be submitted.
- 11) Bidder should provide list of clients and their contact details and the installation/commissioning reports.
- 12) The bidder should provide the user list along with a minimum of 5 years' experience certificates along with the contact details from Government Institute or Central / State Universities
- 13) Quotation should be submitted by the original manufacturer / supplier or its sole authorized distributor / dealer / Indian agent/representative. In case of bid by authorized dealer / distributor / Indian agent/representative, the manufacturer's authorization should be attached with the technical bid.
- 14) One Indian Channel Partner/Agent can participate in a tender on behalf of one manufacturer only. No offer will be entertained if the same Indian Agent/representative is representing another manufacturer for the same item.
- 15) Each SI/bidder is allowed to bid directly or through single OEM for this tender. Manufacturer Authorization Form (MAF) for each IRASIMET instruments and logger from OEM with specific reference to this tender is must and mandatory. It should be obtained and to be attached.
- 16) Bidder must submit Quotations with technical compliance statement for all the specifications along with the detailed data sheets/ catalogues. Relevant remarks can be provided in the compliance statement if required. Quotations without technical compliance and data sheets/catalogues will not be considered.
- 17) Earnest Money Deposit (EMD): As per clause 7 of the General Terms and Conditions under section 15.
- 18) Escalation matrix with full contact details, for the resolution of reported issues during contract period.
- 19) **Start ups:** In order to promote make in India and startups, the prior turnover for all startups shall be relaxed partially subject to their meeting of quality, technical specifications and tender conditions as per tender. The bidder who intends to participate as "start up" company should enclose the certificate towards startup enterprise registration/recognition issued by Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry.
- 20) Bidder's offer is liable to be rejected if they don't upload any of the certificates/ documents sought in the Bid document, ATC and corrigendum if any.

**NOTE:**

- Offers of bidders which do not fulfill the eligibility criteria or fail to submit documentary proof for all the points under eligibility criteria will not be considered for further evaluation.
- No further communication in this regard will be entertained.

**13. Technical Demonstration:**

- a. The tender should provide a technical demonstration of one complete set of IRASIMET system at INCOIS, Hyderabad as proof of working of full-fledged system during technical evaluation stage. The failure to provide the technical demonstration treated as technically disqualified and such bids will not be considered for further evaluation process.
- b. The IRASIMET system should send the data in Real-time to INCOIS, in case of non-availability of GPRS signals, it should switch over to INSAT. And in case of non-availability of INSAT signals, it

should switch over to GPRS. The failure to provide these technical capabilities treated as technically disqualified and such bids will not be considered for further evaluation process.

- c. The IRASIMET system and its real time system, should work 15 days without interruption of data to INCOIS in absence of ship power supply. The same will be verified during the technical demonstration at INCOIS, Hyderabad.

**14. Contents of Bid:-**The quote should be submitted in two bid format. (i)Part –I Techno commercial Bid and (ii) Part –II Commercial Bid

**(i) Techno – commercial Bid:** bid should contain all the information as listed below without which the offer will not be considered further.

**NOTE:**

- Technical bid should contain filled-in Table-1 and Table-2 along with legible documentary proof, without which the offer will not be considered further.
- Part/conditional/incomplete will not be accepted.

**Table 1: Technical Compliance Statement**

S No	Description	Compliance status Yes / No	Page number against the Proof attached.	Remarks/ Deviations, if any
1.	Name of the Bidder			
2.	The bidder is a 1) Registered Indian under Indian Company Act 1956 / 2) Proprietary /3) OEM/(s) /4) System Integrator/5) Others			
3.	Bidder Address and contact details like E Mail , Phone etc.,			
4.	MSE / NSIC certificate details if any  Registration/ License from the Government:  GST Registration No.  PAN Number			
5.	Full Bank Details:  <i>(Note: Bank Details provided cannot be changed during Contract, unless special request from the company)</i>			
6.	Single point of Contact Name : E-mail: Ph No.			
7.	The bidder must be a Company registered under Indian Company Act 1956 or a registered firm. (Proofs for Registration of company, PAN and GST certificates to be submitted.)			
8.	The bidder should provide profile of their company including its infrastructure, technical manpower and their expertise.			

9.	Product catalogues / data sheets of the items offered. Make and model for the line items to be submitted.																			
10.	The quoted HPDLS IRASIMET system should have been working for sea level measurement/ AWS/weather systems in the last 10 years in India.																			
11.	The Bidder should have an average annual financial turnover of Rs.9.33 Cr or more during the last three years ending March 31, 2025. Proof of turnover and Proof of annual profit certificate issued by the chartered accountant to be submitted																			
	<table border="1"> <thead> <tr> <th>Financial year</th> <th>Details of Turnover</th> <th>Details of Profit</th> <th>Details of Net worth</th> </tr> </thead> <tbody> <tr> <td>2024-25</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2023-24</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2022-23</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Financial year	Details of Turnover	Details of Profit	Details of Net worth	2024-25				2023-24				2022-23						
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2024-25																				
2023-24																				
2022-23																				
12.	<p>Bidder should have past experience in similar nature of works of similar volume Bid (such as Indian vessels/ AWS/weather systems) in last five years ending previous day of last date of submission of the online Bid ,out of which</p> <p>b) One work of value Rs.14.92 Cr or above or  c) Two works each of value Rs.9.33 Cr or above or  d) Three works each of value Rs.7.46 Cr or above.</p> <p>Client certificates/Work Completion Certificate/ Experience certificate along with the P.O no. as a reference to be enclosed in this regard.</p> <p>Experience details: Details are to be provided on the letter head duly signed and stamped by the authorized signatory along with copies of contract orders.</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Contract Order details</th> <th>Scope of work</th> <th>Period of contract</th> <th>Contract Value</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Sl. No.	Contract Order details	Scope of work	Period of contract	Contract Value														
Sl. No.	Contract Order details	Scope of work	Period of contract	Contract Value																
13.	<b>Non-Blacklisting Declaration</b> Self-declaration that the firm is not currently blacklisted or debarred by Ministry of Earth Sciences or its Organizations self-declaration signed and stamped by the authorized signatory.																			
14.	The Bidder should provide a technical demonstration of one IRASIMET system at INCOIS, Hyderabad as proof of working of full-fledged system. INCOIS will inform the bidders about the technical demonstration. The failure to provide the technical demonstration treated as technically disqualified and such bids will not be considered for further evaluation process																			

15.	The IRASIMET system should send the data in Real time to INCOIS, incase non availability of GPRS signals, it should switch over to INSAT. And in case of non-availability of INSAT signals, it should switch over to GPRS. The failure to provide these technical capabilities treated as technically disqualified and such bids will not be considered for further evaluation process.			
16.	Bidder should provide list of clients and their contact details and the installation/commissioning reports.			
17.	The IRASIMET system and its real time system, should work 15 days without interruption of data to INCOIS in absence of ship power supply. The same will be verified during the technical demonstration at INCOIS, Hyderabad			
18.	All the parameters of IRASIMET systems are to be displayed in the vessels wheel house for navigation purpose			
19.	The bidder should provide the user list along with a minimum of 5 years' experience certificates along with the contact details from Government Institute or Central / State Universities. Satisfactory project completion certificate for the AWS/weather systems supplied by the bidders is mandatory to consider the relevant experience. The Successful Bidder needs to submit the details of previous experience and installation reports and details should be independently verifiable.			
20.	Quotation should be submitted by the original manufacturer / supplier or its sole authorized distributor / dealer / Indian agent/representative. In case of bid by authorized dealer / distributor / Indian agent/representative, the manufactures authorization should be attached with the technical bid.			
21.	One Indian Channel Partner/Agent can participate in a tender on behalf of one manufacturer only. No offer will be entertained if the same Indian Agent/representative is representing another manufacturer for the same item.			
22.	Each SI/bidder is allowed to bid directly or through single OEM for this tender. Manufacturer Authorization Form (MAF) for each IRASIMET instruments and logger from OEM with specific reference to this tender is must and mandatory. It should be obtained and to be attached			
23.	Bidder must submit Quotations with technical compliance statement for all the specifications along with the detailed data sheets/ catalogues. Relevant remarks can be provided in the compliance statement if required. Quotations			

	without technical compliance and data sheets/catalogues will not be considered.			
24.	Earnest Money Deposit (EMD) : As per clause 7 of the General Terms and Conditions under section 15.			
25.	<b>Solvency / Banker's Certificate</b> Solvency certificate should be submitted by bidder from a Scheduled Commercial Bank. The certificate must not be older than six months from the bid due date. Certificates from cooperative banks are not acceptable. Proof required: Original or attested copy of Banker's Solvency Certificate from a Scheduled Commercial Bank.			
26.	Pre Contract Integrity Pact as per (Annexure 3)			
27.	Escalation matrix with full contact details, for the resolution of reported issues during contract period.			
28.	<b>Start ups:</b> In order to promote make in India and startups, the prior turnover for all startups shall be relaxed partially subject to their meeting of quality, technical specifications and tender conditions as per tender. The bidder who intends to participate as "start up" company should enclose the certificate towards startup enterprise registration/recognition issued by Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry			
29.	Signature on all the pages of the tender document, including addendum, if any, issued by INCOIS and The bidder should give a self-declaration certificate for acceptance of all terms & conditions of tender document			
30.	Do you comply with IRASIMET Sonic Wind Module?			
31.	Do you comply with IRASIMET Infrared Thermometer module?			
32.	Do you comply with IRASIMET Barometric Pressure Module?			
33.	Do you comply with IRASIMET Precipitation Module?			
34.	Do you comply with IRASIMET Shortwave Radiation Module?			
35.	Do you comply with IRASIMET Longwave Radiation Module?			
36.	Do you comply with IRASIMET Relative Humidity & Air Temperature Module?			
37.	Do you comply with IRASIMET Digital device for on-site recorder and report preparation system(Two numbers)			
38.	Do you comply with IRASIMET GPS Receiver Module?			

39.	Do you comply with IRASIMET processing system at INCOIS with dedicated internet (One Number) Module?			
40.	Do you comply with High-Performance Programmable Data Logger System (HPDLS) Module?			
41.	Do you comply with IRASIMET Power Budget?			
42.	Do you comply with Satisfactory project completion certificate for the AWS/weather systems supplied?			
43.	Do you comply with IRASIMET Graphical Display Module?			
44.	Do you comply with integration of HPDLS with INSAT UHF transmitters and necessary bench level & satellite link tests should be carried out at INCOIS. Test data should be received at INCOIS Hub before proceeding for deployment?			
45.	Do you comply with IRASIMET, Data Communication to INCOIS base station with INSAT and GPRS ?			
46.	Do you comply with IRASIMET Comprehensive onsite Annual Maintenance Contract (CAMC)?			
47.	Do you comply with IRASIMET Calibration of Sensors terms?			
48.	Do you comply with IRASIMET Placement of Engineer at INCOIS terms?			
49.	Do you comply with IRASIMET Support from INCOIS terms?			
50.	Do you comply with IRASIMET Payment for CAMC terms?			
51.	Do you comply with IRASIMET Quality of Service & Penalty Clause terms?			
52.	Do you comply with Performance Guaranteeterms?			
53.	Do you comply with Eligibility Criteriatrms?			
54.	Do you comply with Payment terms?			

**Part -II: Un-Priced bid (Commercial Bid)**

SL No	Item description/ configuration	Quantity	UOM	Please confirm whether prices are Quoted in commercial bid or not. (Yes / No) <b>Strictly Do not mention / quote prices here.</b>
1	IRASIMET Sonic Wind Module	30	Nos	
2	IRASIMET Infrared Thermometer	30	Nos	
3	IRASIMET Barometric Pressure Module	30	Nos	
4	IRASIMET Precipitation Module	30	Nos	
5	IRASIMET Shortwave Radiation Module	30	Nos	

6	IRASIMET Longwave Radiation Module	30	Nos	
7	ASIMET Relative Humidity & Air Temperature Module (TRH)	30	Nos	
8	IRASIMET Digital device for on-site recorder and report preparation system	02	Nos	
9	IRASIMET GPS Receiver	30	Nos	
10	IRASIMET processing system at INCOIS with dedicated internet	01	Nos	
11	IRASIMET High-Performance Programmable Data Logger System (HPDLS)	30	Nos	
12	IRASIMET Graphical Display	30	Nos	
13	INSAT UHF Transmitter	30	Nos	
14	Burst Demodulator	02	Nos	
15	1 <sup>st</sup> Year CAMC of complete IRASIMET along with INSAT systems after completion of one year standard Comprehensive warranty	12	Months	
16	2 <sup>nd</sup> Year CAMC of complete IRASIMET along with INSAT systems after completion of 1 <sup>st</sup> year CAMC	12	Months	
17	3 <sup>rd</sup> Year CAMC of complete IRASIMET along with INSAT systems after completion of 2 <sup>nd</sup> year CAMC	12	Months	
18	De-commissioning charges other than 30 IRASIMET including INSAT system	01	Set	
19	Commissioning charges for other than 30 IRASIMET including INSAT system	01	Set	

**15. General Terms and Conditions: -**

Point No.	Details
1.	Quotation: Bidders shall submit their offers online via the Government E Marketplace at <a href="http://gem.gov.in">http://gem.gov.in</a> . Before the bid submission date.
2.	<b>* Acceptance of the order:</b> The Successful bidder shall formally accept the Purchase order Within 10 days from the date of issue of the PO. If the acceptance communication is not received within 10 days, then PO would be deemed as accepted and binding to the successful bidder.
3.	<b>Delivery Period :</b> Within 45 days from the date of acceptance of the PO
4.	<b>Warranty Period:</b> 1 year warranty from the date of installation, commissioning & acceptance of the systems at each designated vessels
5.	<p>Payment terms:</p> <p>Material Component:</p> <ul style="list-style-type: none"> <li>• <b>70 %</b> payment will be released within 30 days upon supply and acceptance of materials at INCOIS, Hyderabad along with original Ink signed commercial invoice and warranty undertaking. Transportation of materials is vendors scope to respective ships with due transit insurance.</li> <li>• <b>20%</b> payment will be released on prorata basis upon completion of, Installation, Integration and Commissioning Systems at each designated vessels and transportation of instruments to INCOIS along with 10 days continuous satisfactory real time data transmission receipt at INCOIS. Installation should be completed within 45 days of supply to INCOIS ,subjected to ship availability</li> <li>• 10% will be paid after successful completion of warranty period or against submission of advance bank guarantee from a nationalized/scheduled bank for the like amount valid for</li> </ul>

	<p>a period of 01 year 02 months</p> <p>Service Component:</p> <ul style="list-style-type: none"> <li>• CAMC and Placement of Engineer.</li> <li>• Payment will be released on quarterly basis against submission of the Ink Signed invoice in triplicate (Original, Duplicate and Triplicate) and subject to satisfactory performance.</li> <li>• The following documents are to be accompanied while submitting the quarterly invoice: <ul style="list-style-type: none"> <li>a. Joint Log Report for the quarter,</li> <li>b. Attendance details of manpower deployed.</li> <li>c. Tax payment copies as applicable.</li> <li>d. Proof of back to back support from OEM (Wherever applicable) <ul style="list-style-type: none"> <li>• If Sensor calibration of respective IRASIMET is not done before 3<sup>rd</sup> quarter for the particular year, the Successful Bidder will lose the CAMC &amp; Calibration payments/charges forever for the subsequent quarters for the respective IRASIMET system. The payment if CAMC charges will be resumed only from the date of fitment of calibrated sensors in the respective ASIEMT system.</li> </ul> </li> </ul> </li> </ul> <p><i>Net payment will be released after statutory deductions, and no other payment terms will be considered.</i></p>
6.	<p><b>Performance Guarantee:</b> Bidder should submit Performance Bank Guarantee 5% of the total CAMC contract value valid for 38 months as per the following form/ options:</p> <ul style="list-style-type: none"> <li>a) Demand Draft</li> <li>b) Insurance Security Bond</li> <li>c) e-Bank Guarantee</li> <li>d) Fixed Deposit Receipt in favor of Director, INCOIS payable at Hyderabad</li> <li>e) Online payment through NEFT/RTGS as per Bank details given below: <ul style="list-style-type: none"> <li><b>Name of the Bank:</b> SBI, HAL Campus</li> <li><b>Branch:</b> HAL Campus</li> <li><b>Account Name:</b> Director, INCOIS</li> <li><b>Account No.</b> 10442322840</li> <li><b>IFSC Code:</b> SBIN0001676</li> </ul> </li> </ul> <p><b>Performance Guarantee is liable to be invoked in the event of</b></p> <ul style="list-style-type: none"> <li>a. Non-execution contract during validity period of the contract</li> <li>b. If the service of the successful bidder is found to be unsatisfactory and fails to adhere to our bid terms and conditions</li> </ul> <p>Any unilateral revision/decision made by the successful bidder during the validity period of the contract.</p>
7.	<p><b>Earnest Money Deposit (EMD):</b> Rs.37,30,000/- (Rupees thirty-seven lakhs and thirty thousand only) has to be submitted as per the following form/ options:</p> <ul style="list-style-type: none"> <li>1. Demand Draft</li> <li>2. Insurance Security Bond</li> <li>3. e-Bank Guarantee</li> <li>4. Fixed Deposit in favor of Director, INCOIS payable at Hyderabad with validity for a period of 45 days beyond the bid validity period.</li> <li>5. Online payment through NEFT/RTGS as per Bank details given below: <ul style="list-style-type: none"> <li><b>Name of the Bank:</b> SBI, HAL Campus</li> <li><b>Branch:</b> HAL Campus</li> <li><b>Account Name:</b> Director, INCOIS</li> <li><b>Account No.</b> 10442322840</li> <li><b>IFSC Code:</b> SBIN0001676</li> </ul> </li> </ul> <p>The scanned copy of the same is to be uploaded to the GeM Portal while submitting the bid. Bank Guarantee should be sent by the issuing banker directly to the office of INCOIS, Hyderabad.</p>

	The original DDs / Financial instruments if any should reach to INCOIS within 5 working days of Bid opening, failing which the bid may treated as incomplete & may lead to rejection of the bid by buyer without making any reference to the bidder.
8.	<b>Penalty Clause: As per Section "S" of this tender document</b>
9.	<b>The Pre-Contract Integrity Pact</b> format enclosed at <b>Annexure- 3</b> has to be appropriately signed on white paper and attached/uploaded by all the participating bidders as pre-qualification along with technical bid. However, the successful bidder has to sign the Integrity pact as per Annexure 3 on <b>Rs. 200/- Indian non-judicial stamp paper</b> . Before award of the contract, the integrity pact will be monitored by IEMs being appointed by Central Vigilance Commission.
10.	<b>Start ups:</b> In order to promote make in India and startups, the prior turnover for all startups shall be relaxed partially subject to their meeting of quality, technical specifications and tender conditions as per tender. The bidder who intends to participate as "start up" company should enclose the certificate towards startup enterprise registration/recognition issued by Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry
11.	GST: The bidder should specifically/particularly state GST if any applicable as extra and the rate at which the same is chargeable, failing which, the prices quoted, will be deemed to be inclusive of such levies. If a particular bidder is not registered under the GST Act, the prices quoted by him will be treated as net and inclusive of all taxes and statutory levies and that any future claims made by him for reimbursement of those levies on account of retrospective registration under the GST Act will under no circumstances be entertained by the INCOIS and that liability for payment of these levies will be wholly and exclusively that of the bidder quoting against our tender.
12.	Successful bidder has to submit the Service level Agreement in prescribed format on Indian non-judicial stamp paper worth Rs.200/- duly signed by authorized signatory within 30 days of receipt of order.
13.	Please note that any falsification/suppression of information could lead to the disqualification.
14.	Any deviations technically or commercially should be clearly indicated in the Technical bid offer only.
15.	If any loss or damage is caused to INCOIS property by workmen deployed by the successful bidder, the cost of the same will be recovered from the agency/contractor
16.	The Contractor shall ensure safety and security of all workforce employed for this work and equipment provided by him under the Contractor until all the works entrusted are completed in all respects and taken over by INCOIS. In the event of damages except under force majeure clause i.e., fire, wind, rain, floods or through any hazards, pilferage, other natural calamities etc., the Contractor shall make good the damaged works and restore the same to the original condition without any additional cost.
17.	<b>Liquidated Damages Clause:</b> In case the supply/delivery/services is delayed and delay is attributed to the Successful Bidder or is not as per our specifications and in the event of breach of any of the terms and conditions mentioned in the Purchase Order, INCOIS shall have the right. f) To recover at the rate of 0.5% per week for the value equivalent to undelivered material / services against the delay in execution of the order or part thereof subject to a maximum of 10% of the services/material not executed/delivered. g) To purchase elsewhere, after due notice to the Bidder Inc., on the account and at the risk of the defaulting supplier for the stores/services not supplied or others of a similar description without cancelling the work order in respect of the job not yet due for supply or h) To cancel the order or a portion thereof and if so desired to purchase the stores / services at the risk and cost of the defaulting supplier and also. i) To extend the period of delivery with or without penalty shall not be more than agreed liquidated damages referred to in clause (a) above, j) To forfeit the security deposit full or in part at the discretion of Director, INCOIS.
18.	<b>Force Majeure Clause:</b> A Force Majeure (FM) means extraordinary events or circumstances beyond human control, such as an event described as an act of God (like a natural calamity) or events such as a war, strike, riots, crimes (but not including negligence or wrong-doing, predictable/seasonal rain and any other events specifically excluded in the clause). An FM clause in the contract frees both parties from contractual liability and obligation when prevented by such events from fulfilling their obligations

	<p>under the contract. An FM clause does not entirely excuse a party's non-performance but only suspends it for the duration of the FM. The firm must give notice of FM within a reasonable time as the conditions permit (not later than 14 days after its occurrence), and it cannot be claimed ex-post facto. There may be an FM situation affecting the purchase organisation only. In such a situation, the purchase organisation is to communicate with the supplier along similar lines as above for further necessary action. If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of FM for a period exceeding 90 (ninety) days, either party may, at its option, seek to terminate the contract without any financial repercussion on either side.</p> <p>Notwithstanding the punitive provisions contained in the contract for delay or breach of contract, the supplier would not be liable for imposition of any such sanction so long as the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event covered in the FM clause.</p>
19.	The Bids shall be uploaded only after signed by a duly authorized officer of the firm which is bidding for the tendered requirement, and in the case of a Corporation, seal, or otherwise appropriately executed under seal.
20.	The acceptance of tender will solely rest with Director, INCOIS who does not bind himself to accept the lowest or any other tender. No reasons will be furnished for acceptance or rejection of any tender.
21.	Canvassing in connection with tender is strictly prohibited and any canvassing will render the bid of such Bidders ineligible.
22.	INCOIS reserves the right to alter the scope/or reduce quantum of work, before/after issue of work order and Bidders shall not have any claim whatsoever on this account.
23.	In case of any unresolved dispute or differences arising at any time between this Institute and the firm holding the contract, these shall be resolved in terms of the Arbitration and Conciliation Act 1996 and held at Hyderabad, Telangana, India only. Further, this contract is subject to laws of India alone. The arbitration process shall commence within 30days of a dispute notice, and the decision of the Arbitrator(s) shall be final and binding on both the parties.

**16. Technical Clarifications through GeM only : -If bidder requires clarifications on any point in this document, it may be submitted through GeM Portal only and replies will be furnished by INCOIS through GeM Portal.**

**17. Pre Bid meeting (Online): June 22, 2026 at 1100 Hrs at INCOIS, Hyderabad.**

**If any correspondence / Clarifications are received outside GeM, despite above clear instructions such correspondence/ Clarifications will be ignored by INCOIS.**

**Declaration:**

I, \_\_\_\_\_ son/daughter of \_\_\_\_\_ aged \_\_\_\_\_ years and residing at \_\_\_\_\_ State and sole proprietor /managing partner /director of \_\_\_\_\_, after having read and understood the tender document No..... dated..... floated by the Institute, hereby undertake that I agree to and shall abide by the terms and conditions prescribed in the said tender document "**Supply, Installation, Integration and Commissioning of 30 No. of Real Time Air Sea metrological (IRASIMET) and INSAT systems and with a one-year standard warranty and 3 year CAMC**"

Signature of the Bidder/Authorized Signatory & date

Name

OFFICE SEAL,

Address

**Note: The bidder / Bidder has to sign & stamp on all pages of tender document and upload the same**

**BANK GUARANTEE FORMAT FOR BID SECURITY:**

Whereas.....<sup>1</sup> (hereinafter called "the Bidder") has submitted its bid dated.....(date of submission of bid) for the supply of .....(name and / or description of the goods) (hereinafter called "the Bid").  
 KNOW ALL PEOPLE by these presents that WE .....(name of bank) of .....(name of country), having our registered office at .....(address of bank) (hereinafter called "the Bank"), are bound unto.....(name of Purchaser) (hereinafter called "the Purchaser") in the sum of \_\_\_\_\_for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_20 \_\_\_\_.

THE CONDITIONS of this obligation are:

1. If the Bidder Withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:
  - (a) fails or refuses to execute the Contract Form if required; or
  - (b) fails or refuses to furnish the performance security, in accordance with the instruction to Bidders.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and Including 45days after the period of bid validity i.e, up to..... And any demand in respect thereof should reach the bank not later than this date.

(Signature of the Bank)

Name of the Bidder

**Bank Guarantee Format for Performance Security**

To

The Director  
Indian National Centre for Ocean Information Services (INCOIS)  
Ocean vally, Pragathi Nagar (BO), Nizampet (SO)  
Pragathi Nagar  
Hyderabad-500 090

Whereas..... (name and address of the contractor) (hereinafter called "the contractor") has undertaken, in pursuance of contract no ..... date..... to supply ..... (Description of goods and Works/ Services) (hereinafter called "the contract").

And whereas you have stipulated it in the said contract that the contractor shall furnish you with a bank guarantee by a Commercial bank for the sum specified therein as security for compliance with its obligations as per the contract.

And, whereas we have agreed to give the contractor such a bank guarantee.

Now Therefore we hereby affirm that we are guarantors and responsible to you, on behalf of the contractor, up to a total of .....(amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the contractor to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the sail debt from the contractor before presenting us with demand. We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition, or modification.

This guarantee shall be valid until the .....day of .....20.....

Our.....branch at.....\*(Name & Address of the .....\*(branch) is liable to pay the guaranteed amount depending on the filing of a claim and any part thereof under this Bank Guarantee only and only if you serve upon us at our .....\* branch a written claim or demand and received by us at our .....\* branch on or before Dt..... Otherwise, the bank shall be discharged of all liabilities under this guarantee after that.

(Signature of the authorized officer of the Bank)

.....

.....

Name and designation of the officer

.....

Seal, name & address of the Bank and address of Branch

\*Preferably at the headquarters of the authority competent to sanction the expenditure for the procurement of goods or at the concerned district headquarters or the state headquarters.

## PRE-CONTRACT INTEGRITY PACT

**General**

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on ..... day of the ..... month of 2022, between, on one hand, the President of India/ Director INCOIS acting through **Shri** ....., Ministry/Department, Government of India (herein after called the "**BUYER**", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and ..... **represented by Mr** ..... **Designation** .....(herein after called the "**BIDDER/Seller**" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part. WHEREAS the BUYER proposes to procure "**Supply, Installation, Integration and Commissioning of 30 No. of Real Time Air Sea meteorological systems (IRASIMET) systems with a one-year standard warranty and 3-year CAMC at INCOIS, Hyderabad**" and the BIDDER/ Seller is willing to offer /has offered the stores and WHEREAS the BIDDER is a private company / public company / Government undertaking /partnership /registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry /Department of the Government of India /PSU performing its functions on behalf of the President of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence /prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered in to with a view to:-

Enabling the BUYER to obtain the desired said stores /equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that he or competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:-

**Commitments of the BUYER**

- 1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favor or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER comparison to other BIDDERS.
- 1.3 All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 2) In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

**Commitments of BIDDERS**

- 3) The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-
  - 3.1 The BIDDER will not offer, directly or through intermediaries any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
  - 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favor, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or

- forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show disfavor to any person in relation to the contract or any other contract with the Government.
- 3.3\* BIDDERS shall disclose the name and addresses of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
- 3.4\* BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
- 3.5\* The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/Integrator/authorized government sponsored export entity of the defense stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of the services agreed upon for such payments.
- 3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender. The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.
- 3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.
- 3.14 The bidder shall not commit any offence under Indian Penal code/Prevention of Corruption Act.
- 3.15 A person signing IP shall not approach the courts while representing the matters to IEMs and he/she will await their decision in the matter.
- 3.16 In case of a joint venture, all the partners of the joint venture should sign the Integrity Pact. In case of sub-contracting, the Principal contractor. It is to be ensured that all sub contractors also sign the IP.
- 4. Previous Transgression**
- 4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this integrity pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India could justify BIDDERS exclusion from the tender process.
- 4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.
- 5. Earnest Money (Security Deposit)**
- 5.1 While submitting commercial bid, the BIDDER shall deposit an amount(as specified in Tender) as Earnest Money/Security Deposit, with the BUYER through any of the following instruments.
- (i) Bank Draft or a Pay Order in favor of \_\_\_\_
- (ii) A confirmed guarantee by an Indian Nationalized Bank, promising payment of the guaranteed sum to the BUYER on demand within three working days without any demur whatsoever and without seeking any reason whatsoever. The demand for payment by the BUYER shall be treated as conclusive proof of payment.

- (iii) Any other mode or through any other instrument (to be specified in the Tender) NEFT/RTGS/Wire Transfer
- 5.2 The Earnest Money / Security Deposit shall be valid upto 9 months or the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the BUYER, including warranty period, whichever is later.
- 5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase contract that the provision of Sanctions for violations shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this pact.
- 5.4 No interest shall be payable by the BUYER to the BIDDER on Earnest Money / Security Deposit for the period of its currency.

#### **6. Sanctions for Violations.**

- 6.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required:-
- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
  - (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.
  - (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER
  - (iv) To recover all sums already paid by the BUYER and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
  - (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with the interest.
  - (vi) To cancel all or any other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money (s) due to the BIDDER.
  - (vii) To debar the BIDDER from participating in future bidding process of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.
  - (viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
  - (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.
  - (x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this pact.
- 6.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal Code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption
- 6.3 The decision of the BUYER to the effect that a breach of the provisions of this pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the independent Monitor (s) appointed for the purposes of this pact.

#### **7 Fall Clause**

7.1 The BIDDER undertakes that it has not supplied / is not supplying similar product / systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry / Department of the Government of India or PSU and if it is found at any stage that similar product / systems or sub systems was supplied by the BIDDER to any other Ministry/Department of the Government of India, or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

#### **8. Independent Monitors**

- 8.1 The BUYER has appointed Independent Monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission
- 8.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this pact.
- 8.3 The monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 8.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project / procurement, including minutes of meetings.
- 8.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.
- 8.6 The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.
- 8.7 The BUYER will provide to the Monitor Sufficient information about all meetings amount the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 8.8 The Monitor will submit a written report to the designated Authority of BUYER/Secretary in the Department /within 8 to 10 weeks from the date of reference or intimation to him by the BUYER / BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

**9. Facilitation of Investigation**

In case of any allegation of violation of any provisions of this pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination

**10. Law and Place of Jurisdiction**

This pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

**11. Other legal Actions.**

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

**12. Validity**

- 12.1 The validity of this integrity pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller, including, warrant period, whichever is later. In case BIDDER is unsuccessful, this integrity pact shall expire after six months from the date of the signing of the contract.
- 12.2 Should one or several provisions of this pact turn out to be invalid; the remainder of this pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13. Parties hereby sign this Integrity Pact at on\_\_\_

BUYER

BIDDER

Name of the Officer

CHIEF EXECUTIVE OFFICER Designation

Dept./Ministry/PSU

Witness:

Witness:

1. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

2. \_\_\_\_\_

\*Provisions of these clauses would need to be amended/deleted in line with the policy of the BUYER in regard to involvement of Indian agents of foreign suppliers.

**OEM's Authorization Format**

(On Company Letter Head)

(To be submitted as part of Technical bid)

OEM's Name \_\_\_\_\_

[Address and Contact Details]

OEM's Reference No. \_\_\_\_\_ Date.....

The Director,

INCOIS

[Complete address of the Procuring Entity]

Dear Sirs,

Ref. Your Tender Document No. Tend No./85/2025; Tender Title: Supply of Core Argo profiling floats with pumped CTD sensor (60 No's) along with a one-year standard warranty at INCOIS, Hyderabad.

We, -----, are proven and reputable manufacturers of the Tendered Goods. We have factories at-----  
----- We hereby authorize Messrs------(*name and address of the authorized dealer*) to submit a bid, process the same further and enter into a contract with you against above referred Tender Process for the supply of above Goods manufactured by us. Their registration number with us is ....., dated/ since.....

We further confirm that no Contractor or firm or individual other than Messrs. .... ( *name and address of the above-authorized dealer*) is authorized for this purpose.

As principals, we commit ourselves to extend our full support for warranty obligations, as applicable as per the Tender Document, for the Goods and incidental Works/ Services offered for supply by the above firm against this Tender Document.

Our details are as under:

Name of the Company:.....

Complete Postal Address: .....

Pin code/ ZIP code: .....

Telephone nos. (With country/ area codes): .....

Fax No.: (with country/ area codes): .....

Mobile Nos.: (with country/ area codes): .....

Contact persons/ Designation: .....

Email IDs: .....

We enclose herewith, as appropriate, *our* ----- (*Bye-Laws/ Registration Certificate/ Memorandum of Association/ Partnership Agreement/ Power of Attorney/ Board Resolution*)

Yours faithfully,

.....

[Signature with date, name, and designation]

for and on behalf of Messrs.....

[name &amp; address of the OEM and seal of company]

**Authorization for Attending Pre-bid Conference.**

(Refer ITB-Clause8)

(on Company Official Letter Head)

Bidder's Name \_\_\_\_\_

[Address and Contact Details]

Bidder's Reference No. \_\_\_\_\_ Date \_\_\_\_\_

To

The Director

INCOIS,

**Ref:** Tender Document No. Tend No.26/2025; Tender**Title:**Supply, Installation, Integration and Commissioning of 30 No. of Real Time Air Sea metrological systems (IRASIMET) systems with a one-year standard warranty and 3-year CAMC at INCOIS, Hyderabad

Subject: Authorization for attending Pre-bid Conference on \_\_\_\_\_ (date).

Following persons are hereby authorized to attend the Pre-bid Conference for the tender mentioned above on behalf of \_\_\_\_\_ (Bidder) in order of preference given below.

Sr.	Name	Government Photo ID Type/ Number
I.		
II.		
Alternate Representative		

**Note:**

1. Maximum of two representatives (carrying valid Government photo IDs) shall be permitted to attend the Pre-bid opening. An alternate representative shall be permitted when regular representatives are not able to attend.
2. Permission to enter the hall where the pre-bid conference is conducted may be refused if authorization as prescribed above is not submitted.

Signatures of bidder

or

Officer authorized to sign the bid.

Documents on behalf of the bidder