

शुद्धिपत्र- संख्या -1 / CORRIGENDUM- NO. 1

निविदा संदर्भ सं: इकोईस -PUR- 27/2025 दिनांक 08.06.2026
Tender Ref No: INCOIS-PUR 27/2025 dt. 08.06.2026

निविदा पहचान संख्या: GEM/2026/B/ 7637976 दिनांक 09.06.2026
Tender ID No: GEM/2026/B/ 7637976 दिनांक 09.06.2026

इकोईस, हैदराबाद, में, 30 संख्या के रियल टाइम एयर-सी मौसम विज्ञान (IRASIMET) एवं INSAT प्रणालियों की आपूर्ति, स्थापना, एकीकरण तथा कमीशनिंग, साथ ही एक वर्ष की मानक वारंटी और 3 वर्ष की व्यापक वार्षिक अनुरक्षण अनुबंध (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.

The **Corrigendum No. 1** is issued as appended below:

A. Bid Due Date Extension:

Sr. No	RFP Reference	Clause as per Tender Document	As per Corrigendum 01
1	Bid Submission Due Date	On or before 1500 hrs of June 30, 2026	On or before 1500 hrs of July 14, 2026
2	Bid Opening Due Date	After 1530 Hrs of June 30, 2026	After 1530 Hrs of July 14, 2026

B. Amended/Additional details:

क्र. सं. S. No	निविदा दस्तावेज के अनुसार Particulars As per Tender	शुद्धि-पत्र सं. 1 के अनुसार As per Corrigendum NO.1
1.	Tender Page No. 02, Section 03, Technical Specifications Point A, Sensor :Ultrasonic Anemometer Specifications: Wind Speed Range 0- 90mis (0-201 mph)	The wind speed measurement range for the IRASIMET Sonic Wind Module has been revised from 0–90 m/s to 0–75 m/s (0–168 mph). All other technical specifications, performance characteristics, environmental requirements, communication interfaces, accuracy, resolution, and operational parameters of the Sonic Wind Module shall remain unchanged.
2.	Tender Page No. 02, Section 03, Technical Specifications Point A, Sensor :Ultrasonic Anemometer Specifications: Environmental Operating Temp – 55°C to +70°C (with heating)	Environmental Operating Temp for the IRASIMET Sonic Wind Module has been revised from -55°Cto+70°C(with heating) to -40°C to+ 70°C. All other technical specifications, performance characteristics, environmental requirements, communication interfaces, accuracy, resolution, and operational parameters of the Sonic Wind Module shall remain unchanged.

3.	Tender Page No. 04, Section 03, Technical Specifications Point E, IRASIMET Shortwave Radiation Module (SWR): sampling Response time (63%): <0.2 sec	IRASIMET Shortwave Radiation Module (SWR) has been revised the sampling Response time (63%): <0.2 sec to ≤ 2 sec. All other technical specifications, performance characteristics, environmental requirements, communication interfaces, accuracy, resolution, and operational parameters of the IRASIMET Shortwave Radiation Module (SWR) shall remain unchanged.
4.	Tender Page No. 15, Section 12, Eligibility Criteria: 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.	Solvency certificate should be submitted by bidder for an amount of minimum 20 Crores 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.
5.	Tender Page No. 15, Section 12, Eligibility Criteria: Similar Work Experience: 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.	With similar works, If the bidder does not have the required financial eligibility criteria as outlined in the tender, then the bidder can claim the OEM's financials in executing similar works, with an order value meeting the requirements specified under Eligibility Criterion 12 (7,a,b and c) of the original bid document, may be considered, provided that documentary evidence of such work orders of OEM is submitted along with the Manufacturer's Authorization Form (MAF). However, L1 bidder shall bear sole responsibility for the 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, and the delivery of quality-assured data throughout the contract period. In cases where a bidder relies on the OEM's financials to satisfy the eligibility criteria for participation in this tender, the bidder shall submit an undertaking on its official letterhead stating that it will be solely responsible for the end-to-end execution of the project, including 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, and the successful submission of all data and materials to INCOIS.

6.	Tender Page No. 23, Section 15, Point 07 Earnest Money Deposit (EMD): Rs.37,30,000/- (Rupees thirty-seven lakhs and thirty thousand only) has to be submitted as per the following form/ options: 1. Demand Draft 2. Insurance Security Bond 3. e-Bank Guarantee 4. Fixed Deposit in favor of Director, INCOIS payable at Hyderabad with validity for a period of 45 days beyond the bid validity period. 5. Online payment through NEFT/RTGS as per Bank details given below: Name of the Bank: SBI, HAL Campus Branch: HAL Campus Account Name: Director, INCOIS Account No.10442322840 IFSC Code: SBIN0001676 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. 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.	Earnest Money Deposit (EMD): Rs.37,30,000/- (Rupees thirty-seven lakhs and thirty thousand only) has to be submitted as per the following form/ options: 1. Demand Draft 2. Insurance Security Bond 3. e-Bank Guarantee : validity for a period of 45 days beyond the bid validity period. 4. Fixed Deposit in favor of Director, INCOIS payable at Hyderabad with validity for a period of 45 days beyond the bid validity period. 5. Online payment through NEFT/RTGS as per Bank details given below: Name of the Bank: SBI, HAL Campus Branch: HAL Campus Account Name: Director, INCOIS Account No.10442322840 IFSC Code: SBIN0001676 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. 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.
7.	Tender Page No. 09, Section 03, Technical Specifications Point L, IRASIMET Graphical Display: Camera Configuration: Rear: 13 MP with LED flash and Front: 5 MP	Rear Camera: ≥10 MP with LED Flash & Front Camera: 5 MP. All other technical specifications, performance characteristics, environmental requirements, communication interfaces shall remain unchanged.

C. Queries and INCOIS Response:

Serial No	Tender Requirement and Quires/Clarifications requested	Response to quires
Q1	M/s. Collip Automation Pvt, LTD	

1	We would Like to request for extension of 3 weeks for preparing this tender and relaxation/modifications in the tender specifications	The bid submission date extended to 14 July 2026. Corrigendum Issued
2	Page no.2PointNo.3TechnicalSpecifications:IRASIMET modules specifications. Given Parameters for Sensor: Ultrasonic Anemometer Specifications Wind Speed Range 0- 90mis (0-201 mph) Request to relaxation/modification as: Oto 85misofIRASIMET Sonic Wind Module.	The Committee examined the request for relaxation of the specified technical requirement IRASIMET Sonic Wind Module. The wind speed measurement range for the IRASIMET Sonic Wind Module has been revised from 0-90 m/s to 0-75 m/s (0-168 mph). All other technical specifications, performance characteristics, environmental requirements, communication interfaces, accuracy, resolution, and operational parameters of the Sonic Wind Module shall remain unchanged. Corrigendum Issued
3	Page no.3 PointNo.7 Technical Specifications :IRASIMET modules specifications Given Parameters for Sensor :Ultrasonic Anemometer Specifications Environmental Operating Temp - 55°C to +70°C (with heating) Request to relaxation/modification as: Environmental Operating Temp -40°C to+ 70°C (with heating)	The Committee examined the request for relaxation of the specified technical requirement IRASIMET Sonic Wind Module. Environmental Operating Temp for the IRASIMET Sonic Wind Module has been revised from -55°Cto+70°C(with heating)to -40°C to+ 70°C. All other technical specifications, performance characteristics, environmental requirements, communication interfaces, accuracy, resolution, and operational parameters of the Sonic Wind Module shall remain unchanged. Corrigendum Issued
4	3. Page no 4. Point E Technical Specifications: IRASIMET Shortwave Radiation Module (SWR) Sensor: Thermopile Range: 285 to 2800 nm, Resolution: 1 W/m² Sensor Output: upto 4000 W/m² Request to relaxation/modification as: Sensor Output: up to 2000 W/m² Given Parameters Drift (post vs. pre calibration after 1 yr);« 0.5% Request to relaxation/modification as: Drift (post vs. pre calibration after 1 yr) < 1 % Given Parameters for Sensor :Physical: Housing: Diameter ~15 cm, Height: ~9.3 cm Request to relaxation/modification as: Housing: Diameter ~15 cm, Height: ~11 cm	Noted and IRASIMET Shortwave Radiation Module (SWR) has been revised the sampling Response time (63%): <0.2 sec to ≤ 2 sec. All other technical specifications, performance characteristics, environmental requirements, communication interfaces, accuracy, resolution, and operational parameters of theIRASIMET Shortwave Radiation Module (SWR) shall remain unchanged. Corrigendum Issued

	Given Parameters for Sensor: Sampling Response time (63%): <0.2 sec Request to relaxation/modification as: Response time (63%): <5.0 sec	
Q2	M/s. Campbell Scientific India Pvt Ltd	
1	1. Request for Extension of Bid Submission Date We are thoroughly reviewing the technical and commercial requirements of this prestigious and large-scale project. In order to submit a comprehensive and competitive bid with accurate pricing and complete compliance, we respectfully request that the bid submission date be extended by an additional two (2) weeks, i.e., up to 15 July 2026.	The bid submission date extended to 14 July 2026. Corrigendum will be issued
2	2. Technical Specifications - Page No. 9, Clause No. 6 INCOIS Requirement: The quoted HPDLS should have been working with INCOIS INSAT transmitters during the last 10 years in Indian waters/AWS/weather systems. The successful bidder shall submit working experience details, installation reports, and independently verifiable references. Campbell Scientific India Pvt. Ltd. Submission: In reference to the above requirement, we wish to submit that Purchase Order No. 6600000071 dated 18.09.2014 for 15 Nos. of Shipboard Weather Stations was awarded by INCOIS to Mis Coastal Environmental Systems, USA (820 1st Avenue South, Seattle, Washington 98134, USA). The supplied and commissioned systems incorporated Campbell Scientific dataloggers and sensors as part of the complete weather monitoring solution delivered to INCOIS. Further, in January 2020, Campbell Scientific, Inc. acquired Coastal Environmental Systems, and the Later became a Campbell Scientific company. Relevant acquisition/merger documents are enclosed for your reference. For the current tender requirement, we are proposing the latest generation Campbell Scientific data logger and associated sensors, which fully comply with the technical	The Committee examined the details, the submitted documents indicate continuity of technology, expertise, and product lineage between M/s Coastal Environmental Systems and Campbell Scientific. Further, the experience cited pertains to systems supplied to and commissioned at INCOIS, thereby meeting the intent of the requirement regarding operational experience with INCOIS INSAT transmitter-based weather monitoring systems. In view of the above and considering that the bidder has provided documentary evidence linking the experience of M/s Coastal Environmental Systems with Campbell Scientific, the experience claimed may be considered as valid compliance against the stipulated tender requirement, subject to verification of the submitted documents and references.

	requirements specified in the tender. We therefore request that the above experience be considered as valid compliance against the stated requirement.	
3	3. Eligibility Criteria - Page No. 15, Clause No. 12 Point No. 6 - Solvency I Banker's Certificate The tender requires submission of a solvency certificate issued by a Scheduled Commercial Bank; however, the required solvency amount has not been specified. Request: We kindly request INCOIS to clarify the minimum solvency amount required for compliance with this criterion.	The minimum solvency amount 20Cr. Corrigendum Issued
4	Point No. 7 - Similar Work Experience The tender stipulates the following eligibility requirements: • One work of value ~14.92 Crores or above; or • Two works each of value ~9.33 Crores or above; or • Three works each of value ~7.46 Crores or above, executed within the last five years. Request for Relaxation: We respectfully submit that due to the COVID-19 pandemic and its impact on government procurement activities during the period from FY 2019-20 onwards, very few projects of this scale were floated and executed in the relevant domain. Accordingly, we request INCOIS to consider the following relaxation: • One work of value ~8.00 Crores or above; or	The request has been examined. It is observed that the disruption caused by the COVID-19 pandemic had a significant impact on the execution and award of projects across various sectors, resulting in a reduced number of eligible projects during the relevant period. The bidder has represented that the existing financial criteria may unduly restrict participation despite possessing the requisite technical capability and relevant domain expertise. However with similar works, If the bidder does not have the required financial eligibility criteria as outlined in the tender, then the bidder can claim the OEM's financials in executing similar works, with an order value meeting the requirements specified under Eligibility Criterion 12 (7,a,b and c) of the original bid document, may be considered, provided that documentary evidence of such work orders of OEM is submitted along with the Manufacturer's Authorization Form (MAF). However, L1 bidder shall bear sole responsibility for the 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, and the delivery of quality-assured data throughout the contract period. In cases where a bidder relies on the OEM's financials to satisfy the eligibility criteria for participation in this tender, the bidder shall submit an undertaking on its official letterhead stating that it will be solely responsible for the end-to-end execution of the project, including Supply, Installation, Integration and Commissioning of 30 No. of Real Time Air Sea metrological (IRASIMET) and INSAT systems and with a one-year

	• Two works each of value ~5.00 Crores or above; or • Three works each of value ~4.50 Crores or above. We also request that similar project experience executed during the Last ten (10) years be considered for evaluation instead of restricting eligibility to the last five years. This will encourage wider participation from technically qualified and experienced OEMs while maintaining healthy competition.	standard warranty and 3 year CAMC, and the successful submission of all data and materials to INCOIS. Corrigendum Issued The request for extending the experience period from five years to ten years is not considered acceptable. Accordingly, the tender conditions shall remain unchanged, and the experience criteria as stipulated in the tender document shall continue to apply.
5	4. Earnest Money Deposit (EMD) As we are arranging the EMD in the form of a Bank Guarantee, we request you to kindly confirm the required validity period of the Bank Guarantee for compliance with the tender conditions.	EMD validity period: validity for a period of 45 days beyond the bid validity period.
6	5. Technical Demonstration - Page No. 16, Clause No. 13 The tender requires a technical demonstration of the proposed system. Request: We request you to kindly share the tentative timeline/schedule indicating when we can proceed with the installation of the system for demonstration purposes.	The technical demonstration is tentatively scheduled to be conducted within 30 days from the bid submission closing date. The bidders will be duly informed of the exact date and schedule for the technical demonstration during the course of the technical evaluation process.
Q3	M/s. Pan India Consultants India Pvt LTD	
1	The vendor requested that the OEM financial eligibility criteria be counted as outlined in the tender 12 (7,a,b and c)	The request has been examined. However with similar works, If the bidder does not have the required financial eligibility criteria as outlined in the tender, then the bidder can claim the OEM's financials in executing similar works, with an order value meeting

		the requirements specified under Eligibility Criterion 12 (7,a,b and c) of the original bid document, may be considered, provided that documentary evidence of such work orders of OEM is submitted along with the Manufacturer's Authorization Form (MAF). However, L1 bidder shall bear sole responsibility for the 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, and the delivery of quality-assured data throughout the contract period. In cases where a bidder relies on the OEM's financials to satisfy the eligibility criteria for participation in this tender, the bidder shall submit an undertaking on its official letterhead stating that it will be solely responsible for the end-to-end execution of the project, including 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, and the successful submission of all data and materials to INCOIS. Corrigendum Issued
Q4	M/s. SWAN Environmental Pvt Ltd	
1	1. Eligibility Criteria – Data Logger Experience Requirement • Page 16, Clause 8: "The quoted HPDL should have been working with INSAT and 10 years INSAT working experience should be provided." • Page 9, Clause 5: "The quoted HPDLs IRASIMET system should have been working for sea level measurement/AWS/weather systems in India during the last 10 years." We would like to submit that our organization has been executing various oceanographic and meteorological projects in association with INCOIS for more than a decade. The data loggers supplied by us have successfully operated with INSAT communication systems, and we were among the first organizations in India to implement such integration. Furthermore, the Government of India is actively promoting the Make in India initiative, encouraging the adoption of indigenous technologies incorporating the latest advancements. Similar encouragement is also being extended	The request has been examined in detail. It is acknowledged that experience in execution of oceanographic, meteorological, and marine monitoring projects is an important consideration. However, the requirement stipulated in the tender is not intended to assess general system integration capability alone, but specifically to establish the proven operational performance, reliability, and compatibility of the quoted High Performance Data Logger (HPDL) with INSAT-based telemetry systems and its successful deployment in marine/weather monitoring applications over an extended period. The requirement for the quoted HPDL to have demonstrated operational experience with INSAT communication systems and in sea-level measurement/AWS/weather monitoring applications during the last ten years has been specified considering the critical nature of the application, the harsh marine environment, and the need for long-term reliability, maintainability, and uninterrupted field performance. The criterion is intended to minimize implementation and operational risks associated with deployment of unproven or insufficiently validated equipment in mission-critical observing systems. While the experience of the bidder as an OEM/System Integrator is recognized, such experience cannot be considered a substitute for the demonstrated field performance and operational track record of the specific data logger being offered. The tender

	under World Bank funded projects. Such initiatives help reduce costs while enhancing system capabilities and self reliance. We also request that the bidder's experience as an OEM/System Integrator with substantial expertise in the execution of oceanographic and marine monitoring projects be considered, rather than restricting the eligibility criteria solely to prior data logger-specific experience. The successful implementation of such projects requires comprehensive system installation/integration/maintenance capabilities that extend beyond only data logger experience. Therefore, bidders with proven experience in executing similar oceanographic and environmental monitoring projects should be considered. Considering the rapid pace of technological advancement, the requirement that the quoted data logger must have ten years of operational experience with INSAT will restrict the adoption of newer and more advanced technologies. We request that this condition be relaxed and we also assure that the data logger we quote will have the reliability and long-term suitability for the proposed marine applications.	requirement is focused on the proven capability of the quoted equipment and not solely on the credentials of the bidder. Further, the requirement does not preclude the use of modern technologies or newer product generations, provided that the quoted HPDL is supported by adequate evidence demonstrating compliance with the specified operational experience requirements. The criterion has been formulated after due assessment of operational needs and risk considerations and is considered essential for ensuring reliability and continuity of observations. In view of the above, the request for relaxation of the eligibility criteria is not agreed. The tender conditions and technical requirements shall remain unchanged.
2	2. Demonstration of Complete IRASIMET System During Technical Evaluation Page 16, Clause 13(a) requires bidders to provide a technical demonstration of one complete IRASIMET system at INCOIS, Hyderabad during the technical evaluation stage. The IRASIMET system is a highly customized solution comprising specialized sensors, data loggers, and communication equipment sourced from multiple OEMs. Procuring and assembling a complete system solely for demonstration purposes prior to award of the contract would impose a significant financial burden on bidders. To our knowledge, such a requirement is generally not followed in tenders issued by major scientific and research organizations. Even during the procurement of the first ship-based AWS by INCOIS nearly two decades ago, no such pre-award demonstration requirement existed.	The request has been examined. The requirement for demonstration of a complete IRASIMET system during the technical evaluation stage has been incorporated to enable objective assessment of the bidder's proposed solution, including system integration, sensor interfacing, data acquisition, telemetry, data processing, and overall functionality. The demonstration is intended to verify compliance with the tender specifications and to assess the readiness, maturity, and interoperability of the proposed system under conditions representative of the intended deployment. The IRASIMET system constitutes a critical operational platform involving integration of multiple hardware and software components from different OEMs. Therefore, evaluation based solely on documentary evidence, past project experience, or component-level specifications may not adequately establish the capability of the bidder to deliver a fully integrated and functional system meeting all operational requirements. The requirement for demonstration is not intended to assess only the bidder's prior experience but also to validate the performance and integration of the specific solution

	We therefore request that this requirement be reconsidered and suitably relaxed. Instead, bidders may be required to demonstrate prior experience in the successful deployment and operation of marine or vessel-based weather monitoring systems, which would adequately establish their technical capability.	proposed against the current tender. Such validation is considered necessary to minimize technical and implementation risks, ensure compatibility among various subsystems, and facilitate a comprehensive technical evaluation on a uniform basis for all bidders. Further, the demonstration requirement is applicable uniformly to all prospective bidders and has been stipulated after due consideration of the operational requirements and the criticality of the proposed deployment. In view of the above, the request for relaxation of the demonstration requirement is not agreed to. The tender conditions and technical evaluation methodology shall remain unchanged.
3	3. Automatic Switching Between INSAT and GPRS Communication Page 16, Clause 13(b) specifies automatic switching between GPRS and INSAT communication channels based on network availability. Since the proposed IRASIMET systems are intended for deployment on vessels operating in offshore and deep sea environments, INSAT communication would naturally serve as the primary communication medium. During extended scientific cruises, GPRS connectivity is generally unavailable beyond coastal regions. Moreover, GSM/GPRS/4G/5G networks are typically not accessible in offshore shipboard operations. Incorporating automatic switching functionality would require additional hardware, communication architecture, and accessories, thereby increasing system complexity and cost. In view of the above, we request INCOIS to review the necessity of GPRS communication for the proposed IRASIMET systems and clarify the operational requirements.	The requirement for automatic switching between INSAT and GPRS communication channels has been incorporated to ensure communication redundancy, operational flexibility, and uninterrupted data availability under varying deployment and operational scenarios. While INSAT serves as the primary communication medium during offshore and deep-sea operations, the IRASIMET systems are also required to operate during vessel transit, near-shore activities, port calls, maintenance periods, testing, commissioning, and other situations where terrestrial communication networks may be available and operationally advantageous. The provision of automatic switching enables seamless selection of the most appropriate communication channel without manual intervention, thereby enhancing system reliability, reducing communication costs where terrestrial networks are available, and ensuring continuity of data transmission in the event of temporary disruption or degradation of either communication channel. Further, the requirement has been specified based on operational experience gained from similar observing systems and is intended to provide a robust and resilient communication architecture capable of supporting diverse operational conditions throughout the lifecycle of the system. The dual communication capability also facilitates system diagnostics, configuration updates, troubleshooting, and data retrieval during coastal operations and vessel maintenance periods. The requirement is technology-neutral and does not prescribe any specific implementation methodology. Bidders are free to adopt an appropriate hardware and software architecture to meet the functional requirement specified in the tender. In view of the above, the requirement for automatic switching between INSAT and GPRS communication channels is considered essential to meet the operational objectives of the project. Accordingly, the tender conditions and technical specifications shall remain unchanged.

4	4. Continuous Data Transmission During Absence of Ship Power Page 17, Clause 13(c) requires uninterrupted operation and data transmission for 15 days in the absence of ship power. We seek clarification regarding whether bidders are expected to provide an independent backup power system, such as batteries, solar panels, or other alternative energy sources, to meet this requirement. Installation of solar power systems onboard vessels generally requires approval from the vessel authorities and additional mounting structures, which may present practical and space-related constraints. Further, ship power is typically turned OFF only during dry-docking or maintenance activities, while continuous power remains available during normal vessel operations. We therefore request clarification on the implementation of this requirement and suggest that continuous ship power availability may be considered sufficient for routine operation of the IRASIMET system.	Yes, the bidders need to provide an independent backup power system, such as batteries or other alternative energy sources, to meet this requirement. The approvals should be duly obtained from the ship authorities and INCOIS will facilitates such requirements. In practice, vessels may experience temporary or extended power interruptions due to generator changeovers, machinery failures, electrical system faults, emergency shutdowns, black-out conditions, maintenance of distribution panels, prolonged anchorage, lay-up periods, or operational contingencies. Additionally, research and survey vessels may undergo periods where non-essential equipment power is intentionally isolated to support maintenance or energy management requirements. As the IRASIMET system is intended to provide continuous meteorological observations and data transmission, the requirement for autonomous operation during loss of ship power appears to be aimed at ensuring data continuity under such unforeseen operational circumstances rather than only during dry-docking periods. Therefore, the requirement should be assessed based on the desired operational availability and mission continuity objectives rather than the assumption that ship power will remain continuously available under all normal operating conditions. Tender conditions and technical specifications shall remain unchanged.
5	5. Past Experience with Similar Works The tender requirement relating to past experience in similar works with a high project value may limit participation by otherwise competent organizations possessing relevant technical expertise and successful project execution experience. We have been executing several real-time monitoring projects involving River Water quality, Air quality monitoring, and other advanced environmental monitoring technologies and applications. In view of the above, we kindly request that the project value eligibility criteria be expanded to include similar real-time environmental monitoring projects rather than being restricted exclusively to oceanographic projects. Considering equivalent projects from related domains would encourage broader participation from competent and experienced bidders while maintaining the desired technical and quality standards of the project.	Note that past experience with similar work was intended to make sure, relevant experience for competent technical expertise and successful execution experience. However with similar works, If the bidder does not have the required financial eligibility criteria as outlined in the tender, then the bidder can claim the OEM's financials in executing similar works, with an order value meeting the requirements specified under Eligibility Criterion 12(7,a,b and c) of the original bid document, may be considered, provided that documentary evidence of such work orders of OEM is submitted along with the Manufacturer's Authorization Form (MAF). However, L1 bidder shall bear sole responsibility for the 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, and the delivery of quality-assured data throughout the contract period. In cases where a bidder relies on the OEM's financials to satisfy the eligibility criteria for participation in this tender, the bidder shall submit an undertaking on its official letterhead stating that it will be solely responsible for the end-to-end execution of the project, including 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, and the successful submission of all data and materials to INCOIS.

		Corrigendum Issued
6	6. Data Logger Specifications Refer Point 3.1 Digital Channels The tender specification requires the Data Logger to support four (4) SDI-12 channels. We submit that the proposed IRASIMET system consists of only eight different meteorological sensors to be interfaced with the Data Logger. As per the SDI-12 communication standard, a single SDI-12 channel can support multiple sensors through unique addressing, and typically up to eight or more sensors can be accommodated on a single SDI-12. Considering the present scope of the project, two (2) SDI-12 channels are more than sufficient to interface all the specified sensors while also providing adequate provision for future sensor expansion. Therefore, the requirement of four SDI-12 channels does not offer any additional functional advantage for the intended application. Further, the stipulation of a minimum of four SDI-12 channels will limit participation to a specific manufacturer's data logger platform, thereby reducing competition and restricting the availability of technically equivalent solutions from other established manufacturers.	The requirement for a minimum of four (4) SDI-12 channels has been specified not only to meet the current sensor interfacing requirements but also to ensure sufficient provision for future expansion and integration of additional sensors, including radar-based sea-state/wave monitoring sensors, motion reference sensors, and other oceanographic or meteorological instruments that may be introduced during the operational life of the system. While the SDI-12 protocol permits multiple sensors to share a single communication bus through device addressing, practical implementation onboard ships necessitate consideration of several factors, including cable lengths, sensor power consumption, communication polling rates, bus loading, fault isolation, maintainability, and future system scalability. Segregation of sensors across multiple SDI-12 channels enhances system reliability by preventing a single bus fault or communication issue from affecting all connected sensors. Furthermore, certain future sensors may require dedicated communication channels to achieve the desired sampling rates, synchronization, or operational reliability, particularly in marine environments where cable routing distances and electromagnetic interference considerations can impact communication performance. From a lifecycle perspective, the availability of four independent SDI-12 channels provides flexibility for future technology upgrades and sensor additions without requiring replacement of the data logger or major modifications to the existing system architecture. This approach minimizes future retrofit costs and ensures long-term sustainability of the IRASIMET platform. The requirement is therefore based on operational flexibility, system robustness, maintainability, and future expansion capability rather than solely on the number of sensors included in the current scope of supply. Accordingly, the tender conditions and technical specifications shall remain unchanged.
7	Refer Point 7 Compatible with Argos, Inmarsat and Iridium Quoted Data Logger has to be Compatible with Argos, Inmarsat and Iridium. We submit that INSAT communication capability is sufficient for the proposed IRASIMET system, as similar systems utilizing INSAT have been successfully deployed and operated by INCOIS for more than two decades across various oceanographic and meteorological monitoring projects. Further, the requirement for compatibility with Argos,	The requirement for Data Logger compatibility with Argos, Inmarsat, and Iridium communication systems has been specified to ensure operational flexibility and global deployment capability of the IRASIMET system throughout its service life. Unlike fixed or regionally deployed ocean observing platforms, the research vessels on which the IRASIMET systems are proposed to be installed routinely undertake scientific cruises across different ocean basins and geographical regions worldwide. During such deployments, communication coverage, availability, regulatory constraints, and operational requirements may vary significantly depending on the vessel location and mission objectives.

	Inmarsat, and Iridium is supported by only a limited number of data logger manufacturers, which will restrict competition and reduce participation from other bidders offering proven and reliable solutions. We therefore request INCOIS to consider data loggers that fully support INSAT communication and meet all other functional and performance requirements of the tender. The clause of compatibility with Argos, Inmarsat, and Iridium be relaxed. This amendment will enable broader participation from qualified bidders while fully meeting the operational and future expansion requirements of the IRASIMET project.	The specified compatibility requirement does not necessarily imply simultaneous use of all communication systems. Rather, it ensures that the Data Logger architecture remains capable of interfacing with any of these communication platforms as required by future operational needs, mission-specific requirements, vessel upgrades, or changes in communication strategy during the lifecycle of the system. Further, compatibility with multiple satellite communication systems provides operational redundancy and minimizes dependence on a single communication network, thereby improving long-term sustainability and adaptability of the platform. Accordingly, the requirement has been incorporated based on present and future operational needs of globally operating research vessels and is considered essential for ensuring interoperability, flexibility, and mission readiness of the IRASIMET system. Therefore, the requirement for compatibility with Argos, Inmarsat, and Iridium remains unchanged.
8	(i) Ultrasonic Anemometer (ii) The tender specifies a measurement range of 0–90 m/s (0–201 mph). We understand that this range is available from a particular manufacturer and this will restrict competition. For the intended application, an ultrasonic anemometer with a range of 0–60 m/s is generally adequate and widely accepted. We would like inform that under the previous AWS project, wind sensor with a measurement range of 0–60 m/s showed reliable performance even during severe cyclonic events. Notably, during Cyclone Hudhud at Visakhapatnam, the system recorded wind speeds of 216 kmph (about 60 m/s), validating the suitability and robustness of such sensors under extreme weather conditions. In light of this proven field performance, we kindly request that the specified wind speed measurement range be reviewed and suitably broadened to allow technically equivalent solutions from multiple reputed manufacturers.	The Committee examined the request for relaxation of the specified technical requirement IRASIMET Sonic Wind Module. The wind speed measurement range for the IRASIMET Sonic Wind Module has been revised from 0–90 m/s to 0–75 m/s (0–168 mph). All other technical specifications, performance characteristics, environmental requirements, communication interfaces, accuracy, resolution, and operational parameters of the Sonic Wind Module shall remain unchanged. Corrigendum Issued

9	(ii) Barometric Pressure Module The tender specifies a ceramic sensor with dimensions of 3.6 × 2.4 × 1.0 inches. These requirements appear to correspond to a specific manufacturer's product configuration. Several recognized manufacturers offer barometric pressure sensors meeting the required performance specifications, with different sensing technologies and dimensions. To encourage wider participation without compromising performance, we request that: • Both ceramic-based and silicon-based sensor technologies be accepted. • The fixed dimensional requirement be relaxed.	The specified system dimensions have been carefully defined after considering the existing mounting arrangements, available installation space, structural constraints, and integration requirements across the research vessel fleet. Adherence to these dimensions ensures compatibility with the existing shipboard infrastructure, minimizes the need for structural modifications, and avoids additional engineering, fabrication, certification, installation costs and approvals. Any significant deviation from the specified dimensions may necessitate redesign of mounting structures, alteration of cable routing arrangements, and vessel-specific modifications, leading to increased project cost, implementation complexity, and downtime of all ships. Therefore, the specified dimensional requirements are essential to ensure uniform installation across all vessels and to facilitate efficient project execution. Further, the specified ceramic sensing element has been selected based on its proven long-term performance, measurement stability, and resistance to the harsh marine environment. Research vessels are continuously exposed to high humidity, saline aerosols, salt deposition, and corrosive atmospheric conditions, which can adversely affect sensor performance and increase maintenance requirements. Ceramic sensing technology offers superior corrosion resistance, reduced drift characteristics, enhanced durability, and reliable operation under prolonged exposure to marine conditions. In addition, ceramic sensing elements have demonstrated lower maintenance requirements and improved long-term stability compared to alternative sensing technologies, thereby reducing lifecycle costs and ensuring sustained data quality throughout the operational life of the system. Accordingly, the dimensional and sensing element specifications have been established based on vessel integration requirements, operational reliability, lifecycle considerations, and proven performance in marine environments. Therefore, the specification remains unchanged.
10	(ii) Graphical Display The tender specifies a camera configuration of: Rear Camera: 13 MP with LED Flash & Front Camera: 5 MP The proposed display unit is primarily intended for onboard visualization of IRASIMET data, graphical	The cameras in the graphical display unit have been specified to ensure operational flexibility, remote support capability, and future scalability throughout the lifecycle of the IRASIMET system. The availability of onboard cameras enables remote visual inspection of system status, display indications, alarm messages, cable connections, sensor conditions, and installation arrangements, thereby facilitating faster fault diagnosis and reducing maintenance turnaround time. Accordingly, the camera specifications have been included to support long-term operational requirements,

	representation of meteorological parameters, system status monitoring, and user interaction. For these intended functions, the provision of rear and front cameras does not appear to be essential to the operational objectives of the system. Camera-equipped display units are generally deployed in land-based applications where image capture is required for surveillance, monitoring of equipment conditions, assessment of weather-related damage, or protection against vandalism. In the present application, the IRASIMET systems are proposed to be installed onboard vessels that are continuously monitored and secured by ship personnel as part of routine vessel operations. In view of the above, we kindly request INCOIS to reconsider the mandatory requirement for rear and front cameras in the display unit and permit display devices without integrated cameras, provided all other functional, environmental, and performance specifications are fully complied with.	remote maintenance capabilities, and future technology integration. However, the request for camera configuration of: Rear Camera: ≥ 10 MP with LED Flash & Front Camera: 5 MP considered. All other technical specifications, performance characteristics, environmental requirements, communication interfaces shall remain unchanged. Corrigendum Issued
11	8. INSAT UHF Transmitter: Refer Point No.6 Output Power : 8 W minimum at antenna input Refer Point No.10 Transmission Rate: 300 bps/1.2/2.4/4.8 Kbps (user programmable) We submit that the specified minimum output power of 8 W at the antenna input is generally adequate for transmission at 300 bps. However, for higher transmission rates such as 1.2/2.4/4.8 kbps, satellite communication systems typically require a corresponding increase in transmitter output power to maintain the desired link margin and communication reliability. In view of the above, we request INCOIS to kindly clarify	The specified 8 W minimum output power is applicable across all the stated transmission rates, including 300 bps 1.2/2.4/4.8 kbps (user programmable). Provide the user programmable transmission rates keeping the output power remains 8 W minimum at antenna input. Therefore, the specification remains unchanged.

	whether the specified 8 W minimum output power is applicable across all the stated transmission rates, including 1.2/2.4/4.8 kbps, or whether a higher output power is expected for operation at the higher data rates. We therefore request INCOIS to provide clarification on the relationship between the required output power and the specified transmission rates so that bidders can propose a technically compliant and optimized solution.	
12	9. Clarification on Inclusion of Additional Scope Items in Price Bid Format We observe that the Price Bid Format provided in the tender document does not contain separate line items for certain activities and services that form an integral part of the scope of work. Therefore, we request clarification regarding the line items under which the following costs are to be quoted and incorporated in the Price Bid: 1. Packing, transportation, and insurance charges for movement of materials from INCOIS to the respective vessels. 2. Supply of local installation materials, mounting towers, RPS units, power cables, display cables, and associated accessories required for successful installation. 3. Installation and commissioning charges for the IRASIMET system, including deployment of manpower for completion of installation, integration, testing, and commissioning activities. 4. Charges towards placement of an engineer at INCOIS for entire project period, as stipulated in the tender scope. 5. Charges towards calibration of sensors during the 1st, 2nd, and 3rd year of the CAMC period. In view of the above, we request clarification on the appropriate line items under which the above costs should be included in the Price Bid or additional line items will be provided to accommodate these mandatory	Note that this is a comprehensive project. Bidders may appropriately distribute the costs associated with the activities you mentioned under Serial Nos. 1 to 4 across any of the price bid items under Serial Nos. 1 to 14 of price bid, including engineer deployment and associated implementation activities. Further, the costs related to calibration activities may be included under the Comprehensive Annual Maintenance Contract (CAMC) components covered under Serial Nos. 15 to 17 of the price bid, including subsequent engineer charges, travel, logistics, and other associated expenses. Since the scope of work is on a comprehensive basis and bidders are expected to account for all associated costs within the relevant price bid items, no separate line item is considered necessary. Accordingly, no change in the tender document, and the specification remains unchanged.

	scope requirements.	
13	Request for Extension of Bid Submission Date In view of the above observations and the clarifications sought, we request an extension of the bid submission deadline by at least three weeks. Such an extension would provide bidders sufficient time to incorporate the clarifications and submit comprehensive, technically compliant, and competitive proposals.	Noted and the bid submission date extended to 14 July 2026. Corrigendum issued
Q5	M/s.NIPUN ENGG.SOLUTIONS	
	The bidder could not available during the online query session	NIL

ध्यान दें:- ऊपर बताए गए बिंदुओं को छोड़कर, मूल निविदा दस्तावेज़ में दर्शाए गए अन्य सभी विनिर्देश, नियम और शर्तें अपरिवर्तित रहेंगी

NB: - Except for the points indicated above, all other Specifications, Terms and conditions as indicated in the original tender document, Remains unaltered unless further amended.

हैदराबाद /Hyderabad
30.06.2026


(वी. सुब्रह्मण्यम/V.Subrahmanyam)
केंद्र अधिकारी/Nodal Officer,

भारतीय राष्ट्रीय महासागर सूचना सेवा केंद्र, हैदराबाद , Indian National Centre for Ocean Information Services, Hyderabad

