

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 फैक्स : 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

इंकोइस: क्रय: 19/2024

Ref. INCOIS: PUR: 19/2024

दिनांक: 08.10.2024

Date: 08.10.2024

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

भारतीय राष्ट्रीय महासागर सूचना सेवा केंद्र (इंकोइस), हैदराबाद, पृथ्वी विज्ञान मंत्रालय, भारत सरकार 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 जीईएम (GEM) के पंजीकृत विक्रेताओं से निविदाओं/बोलियों को आमंत्रित किया जाता है। जीईएम के क्रय होने के नाते बोलियों को केवल **सरकारी ई बाज़ार (जीईएम)** <http://gem.gov.in/> द्वारा ऑनलाइन ऑनलाइन माध्यम 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. Sl. 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)	भारतीय तटों, द्वीपों में 14 टाइड गेज सिस्टम की आपूर्ति, स्थापना, एकीकरण और कमीशनिंग और इंकोइस पर वास्तविक समय में डेटा संग्रह।  Supply, Installation, Integration and Commissioning of 14 Nos of Tide Gauge System in Indian coasts, islands and data collection in Real time at INCOIS.	इंकोइस:क्रय: 19/2024  INCOIS: PUR:19/2024	जीईएम/2024/बी/5484995 दिनांक: 08.10.2024  GEM/2024/B/5484995 dated 08.10.2024	29.10.2024 18:00:00

जीईएम के क्रय होने के नाते बोलियों को बोली/आरए के मद के अंतर्गत केवल जीईएम पोर्टल <http://gem.gov.in/> द्वारा ऑनलाइन माध्यम 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 देवेन्द्र कुमार (ईमेल: devendra.kumar@incois.gov.in; दूरभाष सं. 040 23886074)/ श्री आर. वी. गिरिधर (ईमेल: rvgiridhar@incois.gov.in दूरभाष सं. 040-2388 6055)

Being a GeM procurement, the bid has to be submitted online through the GeM portal i.e., <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. Devendra Kumar (email:devendra.kumar@incois.gov.in; Phone No. 040 23886074) /Mr.R.V.Giridhar (email: rvgiridhar@incois.gov.in Phone No. 040-2388 6055).



Nodal Officer

NIT GEM/2024/B/5484995

e-Procurement Dt: 08.10.2024

(देवेन्द्र कुमार / Devendra Kumar)

केंद्र अधिकारी / Nodal Officer,  
निविदा आमंत्रण प्राधिकारी, इंकोइस  
Tender Inviting Authority, INCOIS

**Bid Document/ बिड दस्तावेज़**

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	29-10-2024 18:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	29-10-2024 18:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	30 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Earth Sciences
Department Name/विभाग का नाम	Department Of Earth Sciences
Organisation Name/संगठन का नाम	Earth Sciences Secretariate
Office Name/कार्यालय का नाम	Indian National Centre For Ocean Information Servi
Total Quantity/कुल मात्रा	160
Item Category/मद केटेगरी	Tide Guage System 1 , Tide Guage System 2 , Tide Guage System 3 , Tide Guage System 4 , Tide Guage System 5 , Tide Guage System 6
GeMARPTS में खोजी गई स्ट्रिंग / Searched Strings used in GeMARPTS	TIDE GUAGE SYSTEMS
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Surgical Robotic Systems, Electronic Weighing Systems as per IS 9281 (Part I, Part II, Part III, Part IV), Control Lubrication Systems, Household Laundry Detergent Powders as per IS 4955, HF Gate Antenna Systems, Potable Water Purification System with Inbuilt Water Cooler, Solar Micro Pumping Systems, Robotic or automated liquid handling systems, Cable tray Systems and Cable ladder systems (Overhead power Cable tray), Reverse Osmosis based Point of Use Water Treatment System for Drinking Purposes (V2) as per IS 16240
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> <li>• Non Refrigerated Centrifuge for General Purpose and research</li> <li>• Laboratory Incubators</li> <li>• Rapid Response Mobile Diagnostic Laboratory (I - Lab)</li> </ul>
BOQ Title/बीओक्यू शीर्षक	SITC OF TIDE GUAGE SYSTEM
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	97 Lakh (s)

**Bid Details/बिड विवरण**

<b>Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष</b>	3 Year (s)
<b>MSE Exemption for Turnover/टर्नओवर के लिए एमएसई को छूट प्राप्त है</b>	Yes
<b>Startup Exemption for Turnover/ टर्नओवर के लिए स्टार्टअप को छूट प्राप्त है</b>	Yes
<b>Document required from seller/विक्रेता से मांगे गए दस्तावेज़</b>	Experience Criteria,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,Additional Doc 1 (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
<b>Do you want to show documents uploaded by bidders to all bidders participated in bid?/</b>	Yes
<b>Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया</b>	No
<b>Type of Bid/बिड का प्रकार</b>	Two Packet Bid
<b>Primary product category</b>	Tide Guage System 1
<b>Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय</b>	10 Days
<b>Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)</b>	No
<b>Evaluation Method/मूल्यांकन पद्धति</b>	Total value wise evaluation
<b>Financial Document Required/वित्तीय दस्तावेज की आवश्यकता है।</b>	Yes
<b>Arbitration Clause</b>	No
<b>Mediation Clause</b>	No

**EMD Detail/ईएमडी विवरण**

Advisory Bank/एडवाइजरी बैंक	State Bank of India
EMD Amount/ईएमडी राशि	390000

**ePBG Detail/ईपीबीजी विवरण**

Advisory Bank/एडवाइजरी बैंक	State Bank of India
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ePBG Percentage(%) / ईपीबीजी प्रतिशत (%)	5.00
Duration of ePBG required (Months) / ईपीबीजी की अपेक्षित अवधि (महीने).	5

(a). 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. जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित कैटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने हैं। एमएसई कैटेगरी 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।

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

**Beneficiary/लाभार्थी :**

PAYABLE AT HYDERBAD

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)

**MII Purchase Preference/एमआईआई खरीद वरीयता**

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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**MSE Purchase Preference/एमएसई खरीद वरीयता**

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
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 {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 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.

6. Purchase preference will be given to MSEs having valid Udyam Registration 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. 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. In respect of bid for Services, the bidder must be the Service provider of the offered Service. 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, while evaluating the bid. 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. 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. 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.

7. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

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

PRICE BID - [1728387681.xlsx](#)

### **Tide Guage System 1**

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

**Technical Specifications/तकनीकी विशिष्टियाँ**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dasari Prasad	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	14	75

**Tide Guage System 1**

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

**Technical Specifications/तकनीकी विशिष्टियाँ**

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**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dasari Prasad	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	14	75

## Tide Guage System 2

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

### Technical Specifications/तकनीकी विशिष्टियाँ

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Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

### Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dasari Prasad	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	14	75

## Tide Guage System 2

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

### Technical Specifications/तकनीकी विशिष्टियाँ

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**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dasari Prasad	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	14	75

**Tide Guage System 3**

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

**Technical Specifications/तकनीकी विशिष्टियाँ**

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dasari Prasad	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	14	75

**Tide Guage System 3**

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



**Technical Specifications/तकनीकी विशिष्टियाँ**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

<b>S.No./क्र. सं.</b>	<b>Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी</b>	<b>Address/पता</b>	<b>Quantity/मात्रा</b>	<b>Delivery Days/डिलीवरी के दिन</b>
1	Dasari Prasad	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	14	75

**Tide Guage System 4**

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

**Technical Specifications/तकनीकी विशिष्टियाँ**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

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1	Dasari Prasad	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	14	75

#### Tide Guage System 4

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

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1	Dasari Prasad	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	14	75

#### Tide Guage System 5

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

#### Technical Specifications/तकनीकी विशिष्टियाँ

<b>Specification Document</b>	<a href="#">View File</a>
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**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

<b>S.No./क्र. सं.</b>	<b>Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी</b>	<b>Address/पता</b>	<b>Quantity/मात्रा</b>	<b>Delivery Days/डिलीवरी के दिन</b>
1	Dasari Prasad	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	15	75

### **Tide Guage System 5**

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

**Technical Specifications/तकनीकी विशिष्टियाँ**

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1	Dasari Prasad	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	5	75

### Tide Guage System 5

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

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1	Dasari Prasad	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	14	75

### Tide Guage System 6

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

### Technical Specifications/तकनीकी विशिष्टियाँ

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1	Dasari Prasad	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	14	75

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

### **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 by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

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

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

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

Buyer Added text based ATC clauses

#### **Completion period:**

- Successful bidder has to deliver the material at INCOIS as per BOM with in 30days from the date of acceptance of the order.

Successful bidder has to complete the installation and commissioning at the designed sites with in 45 days from the date of acceptance of the material at INCOIS.

- **Payment terms:**

- 60 % payment will be released upon supply and acceptance of materials at INCOIS, Hyderabad along with commercial invoice.
- 30% payment will be released on prorata basis upon transportation of material from INCOIS Hyderabad to designated sites , completion of Installation, Integration and successful Commissioning of Tide Gauge System at each designated sites along with 10 days continuous satisfactory real time data transmission receipt at INCOIS.
- Balance 10% will be released upon satisfactory completion of onsite standard warranty up to January 31, 2026.

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

**Security Deposit:** Successful bidder has to submit 05% of the order value within 15days of acceptance of order towards Security deposit by means of Demand Draft/NEFT/RTGS drawn in favour of Director, INCOIS payable at Hyderabad or Bank Guarantee from any Nationalized/scheduled Bank valid for upto 05 months. This deposit will be free of interest and is refundable after the satisfactory execution of the contract and complete fulfillment of contractual obligations.

#### **4. Certificates**

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.

#### **5. Service & Support**

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

#### **6. Generic**

Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

#### **7. Service & Support**

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

### **Disclaimer/अस्वीकरण**

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to

exemption provided to such sellers under GeM GTC.

3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for attached categories, trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

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 within 4 days of bid publication on GeM. 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.

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

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, 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 कार्यवाई का आधार होगा।

**---Thank You/धन्यवाद---**

INCOIS: PUR: 19/2024

08.10.2024

**Request of Proposal for "Supply, Installation, Integration and Commissioning of 14 No. of Tide Gauge System in Indian coasts, islands and data collection in Real time at INCOIS along with onsite warranty up to January 31, 2026"**

Dear Sirs,

On behalf of Director, ESSO-INCOIS tenders are invited in "Two Bid System" (Techno Commercial Bid and Price Bid) from Contractors with appropriate registration having adequate resources and setup and dealing with Supply, Installation, Integration and Commissioning of Tide Gauge System. The offers, in the prescribed format, shall be submitted through online Government E Marketplace at <http://gem.gov.in>. No tender will be accepted in hard copy, fax, e-mail or any other such means. The intending bidders must be registered with Government E Marketplace.

1.	<b>Name of the work</b>	:	Supply, Installation, Integration and Commissioning of 14 No. of Tide Gauge System in Indian coasts, islands and data collection in Real time at INCOIS
2.	<b>BID Reference No.</b>	:	INCOIS: PUR: 19/2024
3.	<b>Submission of Bid</b>	:	Please note that the subject tender has to be submitted online via Government E Marketplace at <a href="http://gem.gov.in">http://gem.gov.in</a>
4.	<b>Earnest Money Deposit (EMD)</b>	:	Rs.3,90,000 /- (Rupees three lakhs nine thousand only) as per clause 10 of the General Terms and Conditions under section 9.
5.	<b>Last date for seeking the clarifications</b>	:	On or before 09 00Hrs of October 18, 2024
6.	<b>Bid submission due date online</b>	:	On or before 15 00 Hrs of October 29, 2024
7.	<b>Bid opening date</b>	:	After 15 30 Hrs of October 29, 2024
8.	<b>Completion period</b>	:	With in 75 days from the date of issue of work order
9.	<b>*Acceptance of the Order by the successful bidder upon AOC</b>	:	* Within 10 days from the date of issue of the PO/Order.

Being a GeM procurement, the bid has to be submitted online through the GeM portal ie., <http://gem.gov.in>. For any assistance, please contact help line of GeM portal. The following officials may also be contacted: Mr. Devendra Kumar (email: [devendra.kumar@incois.gov.in](mailto:devendra.kumar@incois.gov.in); Phone No. 040 2388 6074)/Mr. R V Giridhar (email: [rvgiridhar@incois.gov.in](mailto:rvgiridhar@incois.gov.in) Phone No. 040-2388 6055)

INCOIS may, at its discretion, extend the deadline for submission of bids by issuing a corrigendum, in which case all rights and obligations of the owner and the bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

Postal Address	Location Address
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	Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Govt. of India, "Ocean Valley", Survey No.342/3, Beside ALEAP, Near Pragathi Nagar, Opp. JNTU-Kukatpally, Hyderabad 500 090, Ph.No.040-2388 6000, Fax No.040-23892910



**Index:**

Sl No.	Description	Page No.
1.	Introduction	2
2.	Scope of the Work	2
3.	Technical Specifications	2
4.	Onsite warranty up to January 2026 details	11
5.	Breakdown maintenance	12
6.	Penalty Clause	12
7.	List of Deliverables	13
8.	List of designated Sites	14
9.	Eligibility criteria	14
10.	Contents of the Bid	15
11.	General Terms and Conditions	21
12.	Technical Clarifications	24
13.	Bid-Securing declaration Form- Annexure	25

**1. Introduction**

- 1.1 Indian National Centre for Ocean Information Services (ESSO\_INCOIS), a unit of Ministry of Earth Sciences, Govt. of India is a premier scientific Institute of the country, functioning on 24X7 basis to provide Ocean data, information and advisory services to society, industry, Government and Scientific community through sustained ocean observation and constant improvement through systematic and focused researching information and Ocean modeling.
- 1.2 INCOIS is located approximately 3km from Pragathi Nagar at Ocean valley, Pragathi Nagar PO, Nizampet SO, Hyderabad - 500090, near besides ALEAP in 60-acre premises. It started functioning at its premises w.e.f 2004 after construction of various buildings along with related services were completed and occupied in year 2004.

**2. Scope of work: -** The Scope of work under this tender includes the following:

Supply, Installation, Integration and Commissioning of 14 new Tide Guage Systems in Indian coasts, islands and data Collection in Real time received at INCOIS. The real time tide gauges network is one of the important components for the Tsunami early warning system to monitor the progress of the Tsunami wave since its initial occurrence. The tide gauge data is also used to monitor the extreme events like storm surges, to study the changes in the mean sea level at any given place, to validate the climate models by comparing their results with observed sea level data and to serve the local needs such as day-to-day navigation in ports & harbors and other research purposes. INCOIS is in the process of procuring of 14 New Tide Gauge Systems at different coastal locations in the Indian mainland & Islands. As part of modernization and expansion of Indian Tide Gauge Network, INCOIS like to install its tide gauge systems comprising Radar sensors. The stations are configured to transmit the data in real time to INCOIS Hub through INSAT and GPRS.

**3. Technical specifications****I. Specifications for Multi Channel Data Logger:**

S.No	Parameter	Specifications
1	Sensor and Communication interface with protocol	1. Real time : The instrument should be capable for transmitting data in real time through GPRS and serial data to satellite transmitter (INSAT) 2. SIM support: one slot 4G fallback to 3G/2G/GSM 3. Interfaces:

		a) SDI-12 for sensor b) 2 No. min of RS-232 for communication and 1 No. of RS-232 for PC Configuration. c) 1 No. of RJ-45 for communication and configuration 4. Protocol : TCP/IP stack, FTP, SNMP,HTTP etc
2	ADC resolution	24bit min
3	Clock Type	Real Time Clock- RTC, synchronize with GPS clock accuracy 10 $\mu$ s
4	RTC battery	Internal battery for clock
5	Accuracy	01% over temperature range
6	Memory	Min. 128MB for recording and storing continuous data for at least 1 year @ 1 minute recording interval and log and configuration file. Removal Media: USB Drive, SD Cards (16GB Minimum or higher)
7	Data logger Battery	Sufficient Internal Battery backup for 12 hrs of operation (including for RADAR sensor)
8	Power Supply	12V DC nominal, through solar panel charge controller
9	Accessing the Tide gauge station during the maintenance activity	Dedicated mobile application/ Laptop
10	Temperature range and Relative Humidity	0°C to +55°C 95% non-condensing
11	Software	Reception software for remote configuration i.e., instrument setup, data monitoring, extraction and data analysis, daily flash files, the software should be able to poll the data on real time and it should have graphical user interface
12	1. Serial port output data format to satellite transmitter	The data from serial port is in ASCII format Data format specified as per INCOIS standard
	2. Data Transmission Interval	Every 1 minute
13	Offset adjustment	Should be available for sensor value offset adjustment through local and remotely
14	Power consumption/Operating current	Active current<100mA@12Volt DC with supporting standby mode
15	Housing	Data logger and other equipments should be complaint to IP-65, Aluminium/ Aluminium coated/UV-stabilized ABS plastic
16	Standards	To meet applicable CE/National/International standards with necessary certifications
17	Outdoor operational conditions	Salt, pollutants and contaminants as encountered in harsh coastal weather conditions & industrial areas and Rain
18	Mounting Tower and	Data logger system mounting on a tower. The tower should be

	accessories	rugged, rust proof and withstand to ocean climatic conditions
19	Other Requirements	<ul style="list-style-type: none"> <li>➤ The Data logger should be able to send data through serial port and GPRS as per INCOIS Annexure-XX</li> <li>➤ Interconnecting cables</li> <li>➤ Unit service availability in India</li> <li>➤ Display &amp; Keyboard : Optional</li> <li>➤ GPRS modem should have a provision to store the data in its internal buffer during an event of non-availability of signal. Whenever the signal strength is restored, such data should be transmitted through FTP.</li> <li>➤ User manual-2 sets of Hard and soft copies each</li> <li>➤ User friendly online/offline web-page based configuration shall be possible through both Ethernet and Wifi connection. Local data download via embedded webpage and USB/ethernet</li> <li>➤ It should have Over the Air Firmware Updating capability</li> <li>➤ It should be accessible by secured remote connection from Desktop &amp; Mobile App</li> <li>➤ The data logger must be capable of pushing logged and converted data files to three separate FTP servers.</li> <li>➤ The data logger must support email alerts for various functions such as tracking, power, reboots, logging, status, etc.</li> <li>➤ Training : Detailed training on data logger functionality and using of software.</li> </ul> <p>Note: The quoted data logger model should have been working for sea level measurement in the last 3 years. The vendor needs to submit the details of previous experience and installation reports and details should be independently verifiable.</p>
20	Proven data logger in Indian sea level measurement.	The quoted data logger model should have been working for sea level measurement in the last 3 years in Indian waters. The vendor needs to submit the details of previous experience and installation reports and details should be independently verifiable.
21	Proven with INCOIS INSAT transmitters.	The quoted data logger model should have been working with INCOIS INSAT transmitters in the last 3 years in Indian waters. The vendor needs to submit the details of working experience and installation reports and details should be independently verifiable.
22	Power Budget	<p>A. In Idle condition</p> <p>B. With Radar, GPRS and INSAT transmitters(both)</p> <p>(Enclose the power budget calculation sheet)</p>

**Specifications of Application Software:**

1. Communication to Data Acquisition System (DAS) by:
  - TCP/IP network (Ethernet, GPRS, etc.,)
  - RS-232/422/485 cable
2. Removable automatic data query
3. Remote configuration i.e., instrument setup, Data extraction, daily flash files and Data analysis
4. Software should be able to poll the data on real time and it should have graphical user interface.
5. Two Way Communication
6. Configure and program all the parameters and operations locally and remotely.
7. Synchronize schedule.

8. Request data stored in the DAS memory.
9. Digital (SDI-12) and Analog (current output) sensors calibration
10. Access and ODBC databases connection
11. Required license for application software.
12. user manual should be in English- 2 sets of soft copies
13. Installation & Troubleshooting manuals should be in English - 2 sets of Hard copies & soft copies
14. Application software with foreign origin having servers outside India is not allowed and technically will be disqualified

#### **Graphical Display Specifications:**

1. Access and ODBC databases query
2. Statistical data generation
3. Display data in table and graph modes
4. Temporary chart and compass rose graph
5. Compare data among stations
6. Compare graphs of the same parameters from several stations
7. compare graphs of various parameters from one station
8. Export to Excel and Access
9. Export graphics to GMP, JPEG, etc., images and to the clipboard
10. Application software with foreign origin having servers outside India is not allowed and technically will be disqualified

#### **Telemetry Scope of data logger**

- I. System should have facility of remote connectivity using Dual SIM GSM modem.  
Network operator should be suggested by the vendor according to the network availability site by site.
- II. The SIM should be purchased by Vendor and data subscription charges need to be included in the bids
- III. Systems should also be accessible from any location on internet running computer with the compatible software.
- IV. It should also be possible to connect to the system using smart phone application.
- V. Smartphone application should have facility of retrieving old data, viewing real time data and uploading program file through smart phone application.
- VI. At data receiving center, a real time data display in graphical and digital mode to be provided.

#### **Accessories & Toolkit:**

- A set of complete toolkits along with carrying case for each Tide Gauge Monitoring System should be provided by the vendor.
- The tool kit should have all the equipment to open or re-fix the sensors, datalogger and mounting.
- A user manual having the details of operation of the equipment & software, data downloading and basic troubleshooting should be provided by the vendor.

## **II. Specifications of Solar Module and charge controller:**

Solar Module 12V, 80W (with complete mounting structure and Frame Anodized aluminium alloy)

Essential requirements:

- a. The solar modules should have
  - i. High efficient solar cells
  - ii. Fill factor > 0.7
  - iii. Crane glass-based EVA
  - iv. Superstrate-High transitivity 3.2mm minimum glass for providing high impact resistance suitable for Andaman & Nicobar Islands with humidity of 95% non-condensing marine environment.
  - v. Corrosion resistant Silver Anodized Aluminum frames with proper mounting holes for quick installation
  - viii. Obtained IEC61215 Edition 2 or latest edition certification
  - ix. Obtained IEC61730-2:2004 or latest certification.
- b. The solar module manufacturer should have

- i. Obtained SP 1A/1P rating and approved by Ministry of New and Renewable Energy (MNRE), Government of India.
- c. Mount: Corrosion resistance and to work in coastal environment

### **III. Solar charge controller specifications:**

The solar charge controller should have the control circuit to disconnect load when sensing battery voltage low (automatic ON / OFF) the load to prevent over draining of the battery.

Solar Charge controller for both Tide gauge components and communication system (GPRS, MSS & UHF transmitters)

Type	: MPPT
Working operation	: 12V
Max solar charge current	: 20A
Max Load current	: 20A
Load in rush capability	: 140 amps
Transient surge protection	: 1500W
3-state	
battery LED indicators	: Mandatory
Max solar voltage	: 30V
Nominal PV power	: 200w@12v
Peak efficiency	: 97%
Self-consumption	: <8ma/12V
Operating temperature	: 0 to +60deg C
Humidity	: 95% non-condensing
Electronic protections	: Load-overload, short circuit, high voltage Reverse polarity-battery, PV & load over temperature
Standards	: Applicable EN/IEC standards, CE compliant, UL1741/CS Are cognized component with necessary certifications
Environmental	: Corrosion resistance and should work in harsh coastal outer environmental conditions.
Warranty	: 5-year warranty.

### **IV. Specifications of Battery:**

Capacity	: 65AH/12V (Tide gauge operation)
Type	: VRLA GEL/AGM
Warranty	: 5-year warranty.

### **V. Interconnecting cables, connectors, lugs and conduits:**

A) The cables should be multi strand copper insulated.

CABLE STANDARDS: (I) TÜV listed as PV1-F TÜV 2 PfG 1169/08.2007 (ii) weather and UV resistant.

B) Connectors and lugs: Zinc nickel coating.

C) Conduit: PVC coated flexible SS conduit to protect in harsh marine conditions.

Specifications of conduit: Constructed by galvanized steel strip, SS304 or SS301, PVC jacketed

### **VI. Specifications of Fencing:**

1. The main purpose of the fencing is to secure the instruments and site from trespassing. The Fencing material should be Marine grade and withstand ocean climatic conditions. The dimensions of fencing is every site dependent and should be minimum 4meter X 4 meter or as per the site availability with entry door.
2. The height of fencing for the site enclosure must be 1.8 meters from the ground level.
3. Fencing angle should be of size 40mm X 40mm X 5mm
4. Distance between each fencing angle should be not more than 2.5 m.
5. Dimensions of fencing mesh spacing (approx.) : 3 inches X 3 inches.
6. Entry door: Gate Dimensions: 1.8 m X 1 m with locking facility.
7. The fencing should be properly painted to avoid rusting .The fencing should be painted using Epoxy marine grade and all the materials should be galvanized.

### **VII. Specifications of Tower & Details of Civil work:**

1. The height of tower is 4 meters (Tripod structure, diagram of tower is attached for reference even though the bidder may design on their own)
2. Erection of the cement platform for mounting the tower.
3. The total data logger system (Radar Sensor with adjustable arm, solar panel, charge controller ,battery bank, INSAT MSS/UHF Transmitter, GPRS antenna and GPS receiver etc.) is mounted on the tower itself.
4. The material of the mounting tower should be rust proof, marine grade and withstand ocean climatic conditions.
5. The tower design should be in accordance to the equipment load and local wind speed (Max)

**VIII. Details of Civil Work:**

6. Erection of the cement platform for mounting the tower with proper base plate.
7. Cement work for Fencing all locations
8. All the above work will be certified by INCOIS official at all the locations.

**IX. Specifications of RADAR sensor:**

Description	Specifications
Output Interface	SDI- 12 and 4 to 20mA
Measuring Range	30 m
Accuracy	±2 mm over measuring range linearity, repeatability and hysteresis
Operating voltage	9.6 to 28 V DC
Current rating (active)	<15mA
Operating Temperature	0°C to +55°C
Humidity	100%
Housing	IP 65, enclosure material should be Aluminium/ Aluminium coated/UV- stabilized ABS plastic
Electromagnetic Compatibility	As per national/international std.
Outdoor operational conditions	Salt, Pollutants and contaminants encountered in harsh coastal weather conditions & industrial areas.
Configuration/ Control	Separate port for configuration and control
Calibration equipment	Should Provide Calibration Equipment for RADAR sensor.
Proven Radar Sensor in Indian sea level measurement.	The quoted Radar Sensor model should have been working for sea level measurement in the last 3 years in Indian waters. The vendor needs to submit the details of previous experience and installation reports and details should be independently verifiable.
Proven with INCOIS INSAT transmitters.	The quoted Radar Sensor model model should have been working with INCOIS INSAT transmitters in the last 3 years in Indian waters. The vendor needs to submit the details of working experience and installation reports and details should be independently verifiable. This is to make sure no interference between radar sensor and INCOIS transmitters.

**Note:** The quoted RADAR sensor model should have been working for sea level measurement in the last 3 years in Indian waters. The vendor needs to submit the details of previous experience and installation reports and details should be independently verifiable.

**X. GPRS Specifications (External/Internal):**

**Communication interface:**

1. A dual SIM and Communication should support 4G fall back to 3G/2G/GPRS networks.
2. Antenna: Modem should have a SMA antenna connector with required accessories

3. The Antenna should be of 10dBi high gain and receiver with high sensitivity and should be capable of sending real time data without any loss.
4. For placing the SIM card, a SIM card holder shall be provided on the modem with suitable sealing provision on the device cover.

**Communication Capability:**

5. Frequency band : 900/1800/2100 MHz.
6. Supports Data ( via FTP)
7. GPRS communication protocol: support FTP protocol.
8. Class: GPRS multi slot class 10 or higher.

**Functional Specifications:**

9. The Modem should establish the communication channel between data logger output and receiving station for data transfer (through FTP).
10. There should be provision to configure the modem for communication media (GSM/GPRS), Baud rate and GPRS settings.
11. Modem shall support fast data transfer.
12. Software: GUI based user configuration for both data logging and GPRS configuration.

**XI. Telemetry Scope:**

- System should have the facility of remote connectivity using Dual SIM GSM modem.
- Network operator should be suggested by the vendor according to the network availability site by site.
- The SIM should be purchased by Vendor and data subscription charges need to be included in the bids.
- Systems should also be accessible from any location on internet running computer with the compatible software.
- It should also be possible to connect the system using smart phone application.
- Smartphone application should have facility of retrieving old data, viewing real time data and uploading program file through smart phone application.
- At data receiving center, a real time data display in graphical and digital mode to be provided.
- MONITORING & MANAGEMENT HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log Firmware update from server, automatic notification WEB UI FOTA SSH (v1, v2) SMS status, SMS configuration, send/read SMS via HTTP POST/GET SSH SMS Call Reboot, Status, Mobile data on/off, Output on/off, answer/hang-up with a timer OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem MQTT Broker, MQTT publisher TR-069 MQTT SNMP SNMP (v1, v2, v3), SNMP Trap JSON-RPC Management API over HTTP/HTTPS MODBUS TCP status/control
- SYSTEM CHARACTERISTICS CPU Qualcomm QCA9531, MIPS 24kc, 650 MHz 64 MB, DDR2 16MB SPI Flash (4 MB available for user)
- FIRMWARE / CONFIGURATION WEB UI Update FW from file, check FW on server, configuration profiles, configuration backup Update FW/configuration from server Update FW/configuration for multiple devices FOTA RMS Keep settings Update FW without losing current configuration
- LOCATION TRACKING GNSS GPS, GLONASS, BeiDou, Galileo and QZSS GNSS coordinates via WebUI, SMS, TAVL, RMS NMEA 0183 Coordinates NMEA NTRIP (planned) NTRIP protocol (Networked Transport of RTCM via Internet Protocol) Supported server software TAVL, RMS Configurable multiple geofence zones
- INPUT/OUTPUT 3 x Configurable Inputs/Outputs. Digital input 0 - 6 V detected as logic low, 8 - 30 V detected as logic high. Open collector output, max output 30 V, 300 mA Configurable I/O 1 x Analog input (0 - 30 V) HTTP POST/GET, Schedule Analog input Output control Events SMS, Email I/O juggler Allows to set certain I/O conditions to initiate event
- SERIAL RS232 Terminal block connector: TX, RX, RTS, CTS Terminal block connector: D+, D-, R+, R- (2 or 4 wire interface) From 300 to 3000000 RS485 Supported baud rates Number of data bits 7 or 8 1 or 2 None, Even, Odd Number of stop bits Parity Flow control None, RTS/CTS (only for RS232 interface), Xon/Xoff
- POWER Connector 2 pins in 16 pin industrial terminal block 9 - 30 VDC, reverse polarity protection, surge protection +/-1 kV 50 µs max Idle: <1.2W max<5W
- PHYSICAL INTERFACES (PORTS, LEDS, ANTENNAS, BUTTON, SIM) Ethernet 1 x RJ45 port, 10/100 Mbps 3 x Configurable I/O, 1 x Analog input in 16 pin terminal block 3 x connection status

LEDs, 3 x connection strength LEDs, 1 x power LED, 1 x Eth port status LED I/O's Status LEDs 2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, double stacked SIM tray 2 pins in 16 pin terminal block SIM Power OPERATING ENVIRONMENT Operating temperature -40 C to 75 C Operating humidity 10% to 90% non-condensing 1 x SMA connector for LTE, 1 x SMA connector for GNSS 4 pins in 16 pin terminal block (TX, RX, RTS, CTS) Antennas RS232 4 pins in 16 pin terminal block (D+, D-, R+, R-) Reboot/User default reset/Factory reset button

- OPERATING ENVIRONMENT Operating temperature -40 C to 75 C Operating humidity 10% to 90% non-condensing
- MOBILE Mobile module Supports sending and reading Unstructured Supplementary Service Data messages SMS status, SMS configuration, send/read SMS via HTTP POST/GET, EMAIL to SMS, SMS to EMAIL, SMS to HTTP, SMS to SMS, scheduled SMS, SMS autoreply, Call utilities USSD SMS/Call Tag based VLAN separation Custom data limits for both SIM cards VLAN (planned) Mobile quota control WEB filter (planned) Blacklist for blocking out unwanted websites, Whitelist for specifying allowed sites only Access control Flexible access control of TCP, UDP, ICMP packets, MAC address filter Operator black/white list Used band status display, Band lock Black/White list Band management Auto APN Direct connection (bridge) between mobile ISP and device on LAN APN Bridge Multiple PDN Possibility to use different PDNs for multiple network access and services
- DP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, SMTP, SSL v3, TLS, ARP, PPP, SSH, DHCP, Telnet, MQTT, Wake On Lan (WOL) H.323 and SIP-alg protocol NAT helpers, allowing proper routing of VoIP packets Network protocols VoIP passthrough support (planned) NETWORK Routing Pre-shared key, digital certificates, X.509 certificates DDOS prevention (SYN flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention (SYN-FIN, SYN-RST, X-mas, NULL flags, FIN scan attacks) DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, BF-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, AES-256-CBC Attack prevention SECURITY Authentication Firewall Pre-configured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T IKEv1, IKEv2, with 5 encryption methods (DES, 3DES, AES128, AES192, AES256) GRE tunnel IPsec GRE Stunnel (planned) Proxy designed to add TLS encryption functionality to existing clients and servers without any changes in the program's code PPTP, L2TP Client/Server services can run simultaneously, L2TPv3 support DMVPN (planned) Method of building scalable IPsec VPNs SSTP (planned) SSTP client instance support ZeroTier ZeroTier VPN client support WireGuard WireGuard VPN client and server support Multiple clients and server can be running simultaneously, 12 encryption methods VPN OpenVPN OpenVPN Encryption Ping Reboot, Periodic Reboot, LCP and ICMP for link inspection Traffic priority queuing by source/destination, service, protocol or port, WMM, 802.11e Connection monitoring QoS / Smart Queue Management (SQM) (planned) Firewall Port forward, traffic rules, custom rules Supported >25 service providers, others can be configured manually Possibility to mount remote file system via SSH protocol DDNS SSHFS 1 x LAN port 10/100 Mbps, comply IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX crossover (Configurable to work as WAN port)

## **XII. Specifications of GPS Receiver:**

Frequency : L1 (1575.42 MHz), 12 channel minimum

Receiver sensitivity : -185dBW minimum

Acquisition Time:

Cold start : better than 50 secs

Warm start : better than 40 secs

Re acquisition : less than 2 secs

Update rate : 1 record/sec

### **Accuracy:**

GPS Standard Position Service (SPC)

Position: less than 15m 95% (without DGPS)

Time accuracy: equal or better than 10µs

Available output sentences : include GPGLL

Interface: NMEA 0183, default setting 4800 baud

Power supply: 8-16V DC, current less than 45 ma at 12V DC

Operating temperature: 0°C to +55°C



Mounting: Pole mount or Flush mount

Case: Marine grade, fully casketed, water proof, complaint to IP67

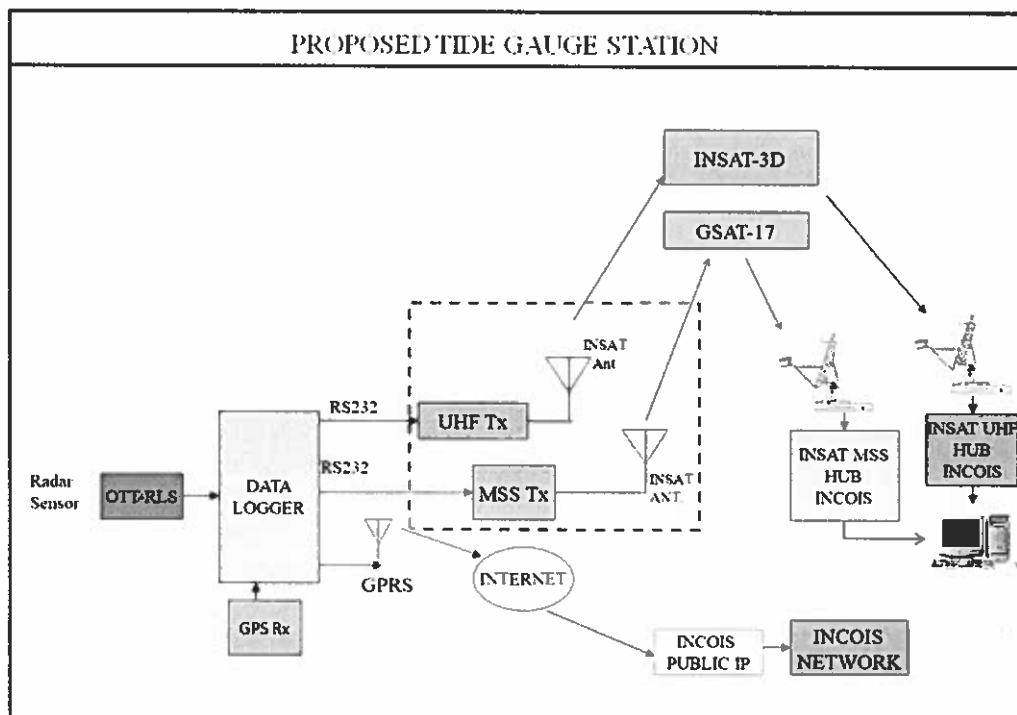
External GPS Cables : 5 mtr. it should be sufficient for receiving the signal and interconnected to the data logger. It should work satisfactorily with mentioned data logger.

**XIII. Site Survey:**

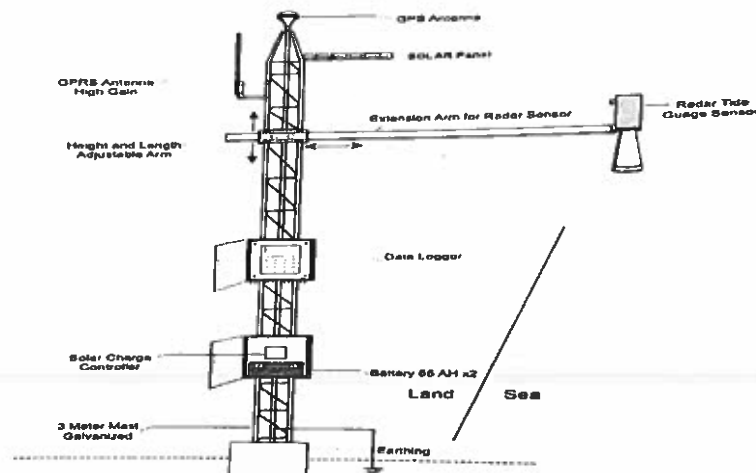
Selected vendor need to carry out the site survey for the installation of Tide gauge stations within 30 days of Mian land location and 45 days in Indian Islands. All the site/jetty survey and necessary gate pass/approvals for port material & permission handling need to be done by the vendor. INCOIS will provide the required documents. Site permission may be obtained from each port authority and INCOIS will provide the documents for site details.

All the stations should be secured as per the norms mentioned in the tender and locking should be provided so that unauthorized access can be avoided. The Datum and MSL and other relevant details should be obtained from the respective Deputy conservator and local bench marking leveling should be carried out with expert at Tide Gauge station site of installation. The site survey cannot be acceptable if any of details are not satisfactory.

**Proposed tide gauge station:**



Block schematic of proposed at Tide Gauge stations with complete system.



**Block schematic of proposed INSAT communication at Tide Gauge stations**

**The following Equipments are mounting on the tower:**

1. Data Logger
2. Solar Panel
3. Charge controller with battery bank
4. INSAT MSS/UHF Transmitter
5. Adjustable Arm for RADAR sensor
6. GPS receiver
7. GPRS Antenna
8. Lightning arrestor

**4. Onsite warranty up to January 2026 details:**

To facilitate real time communication/data reception to INCOIS using GPRS and INSAT: Procurement & Installation of SIM cards at respective locations by vendor only and regular payments to these SIM cards (14 NOs) must be borne by vendor up to onsite warranty period of January, 2026.

The firm shall do the preventive maintenance of Radar tide gauge system at 14No.s of Tide gauge locations by visiting the site for at least once in every 6 months. Under onsite warranty preventive Maintenance, the maintenance team/resident maintenance engineer will visit each site at least once in 6 months to take up the preventive maintenance activity of all tide gauge systems/equipments to ensure optimum performance of the systems/equipments. During the visit, the maintenance team/engineer will report & co-ordinate with the respective PI Scientist at INCOIS and discussion detail the operational problem and advise accordingly.

The broad lists of checks to be carried out for preventive maintenance at each site are:

- Checking of the Data logger working condition / Firmware up-gradation if requires
- Calibration/ Offset adjustment of radar level sensor with reference to chart datum value provided by port personals.
- Annually all Radar Sensor should be calibrated and certificates will be verified by INCOIS.
- Cleaning of Solar Panels and checking their original orientation where solar system is installed.
- Checking the GPRS Modem and antenna connectivity and ensure that real time data transmitted through software to INCOIS.
- Inspection of GPS cable and all other inter connecting cables, connectors etc. and their replacement.
- Thoroughly checking & maintenance the GPRS/INSAT Software deployed at INCOIS (polling and retrieving the real time data from field locations through GPRS ). Install the patches / firmware / upgrades on time to time for smooth functioning of the system.
- Checking of parameters, configuration of the equipment/system and their correction, if required.
- List of diagnostic check for preventive maintenance includes power system i.e battery conditions fault Analysis and restoration.
- Preparation of maintenance/Log Reports: Detailed site wise report for the checks & tests carried out during each preventive maintenance visit will be submitted to INCOIS.
- Download the offline data from the data logger for each and every site and send to INCOIS.
- Any other activities required for the smooth running of the system.

5. **Breakdown maintenance:** During any break down / not working, the vendor 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:**

- Tide gauge data availability of ( 95% ) or more is maintained over a quarter in real time (GPRS/INSAT or both)
- Diagnose & maintenance of all hardware & software including supply & replace of spares/modules, interconnecting cables and associated hardware supplied & installed by the vendor only.

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

6. **Penalty Clause:** In case of any problem in the Tide gauge systems (as per the BoQ list mentioned), the problem has to be rectified as per the timelines mentioned below:

**Service level:**

- I. The bidder shall deploy competent trained manpower, so that the problems are rectified in short time. The deployed engineers should have at least 2-year experience in the relevant field of handling installation, integration & commissioning. It is preferable that the person should have experience in integration and interfacing data loggers with satellite transmitters also.
- II. The vendor should provide OEM warranty support (incl. Test reports, calibration certificates etc.) for a period of January, 2026 from the date of installation & commissioning as part of this tender.
- III. The vendor shall be responsible for replacing any defective part / parts (consumable / non-consumable) without any extra cost to INCOIS during the warranty period.
- IV. The vendor should keep the required spares at their main office to replace the faulty immediately. The list of spares with serial no should be provided after accepting the PO. Also responsible for updates of various firmware/software's released by OEM from time to time without any extra cost to INCOIS during the onsite warranty period.
- V. The Firm is requested to provide a plan for warranty (visit details) support for operational maintenance of the system to be taken up on yearly basis.
  - I. **Preventive Maintenance:** The vendor shall do preventive maintenance by visiting the site for at least once in every 6 months and shall submit the service report to INCOIS with duly signed.
  - II. **Break down Maintenance:** During any breakdown/not working, the vendor shall attend emergency breakdown calls at short notices. There will be no restrictions on no of breakdown maintenance visits per month/year due to the critical nature of work.
  - III. In case of any problem in the Tide Gauge system/solar panel/solar charge controller etc. the problem has to be rectified within 7 days in case of stations at mainland and within 21 days in case of stations in Andaman & Nicobar Islands and Lakshadweep islands.

**The vendor has to comply for the following service level**

**Features**

- Preventive maintenance of the field locations (Island & Mainland) once in 6months.
- QoS implementation and review.

**Penalty Clause**

The problem has to be rectified as per the allowed timelines mentioned below without any penalty charges:

Region	No of days
Mainland locations	7
Island locations	21

In case, the problem is not rectified with the timelines mentioned above, the detailed penalty charges are applicable as mentioned below

- Natural Calamities are excluded based on the INCOIS assessment.

Region	Number of days down	Penalty (per station) (The warranty amount (WA)= 10% of PO Value + Sl no. 10 of BoM amount )
<b>Mainland</b>		
	8-15 days	5% on half-yearly warranty amount(WA) charges of particular station
	16-22 days	15% on half-yearly warranty amount(WA) charges of particular station
	23-30 days	30% on half-yearly warranty amount(WA) charges of particular station
	>31 days	Forfeited half-yearly CAMC charges of particular station
<b>Island</b>		
	22-28 days	5% on half-yearly warranty amount(WA) charges of particular station
	29-33 days	15% on half-yearly warranty amount(WA) charges of particular station
	34-38 days	30% on half-yearly warranty amount(WA) charges of particular station

>39 days	Forfeited half-yearly CAMC charges of particular station
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7. List of Deliverables:

S. No	Item description/ configuration	QTY( Nos)
1	RADAR water Level sensor with accessories as per Section 3 of IX	14 Set
2	Multi-channel data logger (internal/external GPRS modem) with accessories (interconnecting cables) and telemetry scope as per Section 3 of I , V, XI, XII	14 Set
3	Solar module and charge controller along with mounting kit for data logger as per Section 3 of II & III	14 Set
4	Batteries for data logger as per Section 3 of IV	14 Set
5	4 Mtr Tower for mounting the Data logger, Solar panel with charge controller and battery, 1.5mtr steel retractile arm for supporting the Radar sensor and Transmitter as per section 3 of IV, V, VI, VII, VIII, IX	14 Set
6	Internal/External GPS Receiver as per Section 3 of X	14 Set
7	Lightning arrester for safety of equipment as per the site requirements as per section 3 IV, V , VI, VII, VIII, IX	14 Set.
8	Interconnecting cables and required accessories. As per the site requirements Section 3 of V	14 Set
9	Site Survey as per section 3 of XIII	
	Mainland per Site	
	Island per site	
10	Onsite warranty up to January 2026 , as per Section 4	14 set
11	Earthing for the tide gauge equipment. As per the site requirements as per section 3	14 Set
12	Installation and commissioning including transportation at Remote site after inspection of material at INCOIS to designated site	14 Set

8. List of designated Sites

Proposed New Tide gauge Locations (Tentative)

Sl. No	Station Name	State/UT
1.	Narcondam Island: INSAT UHF if there is no GPRS coverage(INCOIS will provide INSAT UHF transmitter)	Andaman & Nicobar Islands
2.	Sagar Island/ Haldia (Any one of the stations based on Jetty availability/ feasibility)	West Bengal
3.	Digha	West Bengal
4.	Puri (Jetty need to be identified)	Odisha
5.	Cuttack	Odisha
6.	Kalingapatnam/Srikakulam (Any one of the stations based on Jetty availability/ feasibility)	Andhra Pradesh
7.	Ramayapatnam/Kothapatnam (Any one of the stations based on Jetty availability/ feasibility)	Andhra Pradesh
8.	Rameswaram	Tamil Nadu
9.	Kanyakumari	Tamil Nadu
10.	Chetla: INSAT UHF if there is no GPRS coverage(INCOIS will provide INSAT UHF transmitter)	Lakshadweep Islands

11.	Andrott: INSAT UHF if there is no GPRS coverage(INCOIS will provide INSAT UHF transmitter)	Lakshadweep Islands
12.	Kannur	Kerala
13.	Murudeshwara/Bhatkala (Any one of the stations based on Jetty availability/feasibility)	Karnataka
14.	Apollo Bundar, Mumbai	Maharashtra
15.	Ratnagiri	Maharashtra
16.	Daman	Diu & Daman
17.	Pipavav	Gujarat

Additional Tide gauge station locations provided considering jetty availability and feasibility studies. The 14 new stations may be finalized after a detailed survey of the above-mentioned locations.

#### 9. Eligibility Criteria

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

- 1) The Tenderer 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. Make and model for the line items to be submitted.
- 4) The quoted data logger should work with the INSAT system and three years INSAT working experience should be provided.
- 5) The bidder should have an average annual financial turnover of Rs. 97.00 lakhs or more during the last three years ending March 31, 2023. Proof of turnover and Proof of annual profit certificate issued by the chartered accountant to be submitted.
- 6) Tenderer should have past experience in last three years ending previous day of last date of submission of the online Bid. Client certificates/Work Completion Certificate/ Experience certificate along with the P.O no. as a reference to be enclosed in this regard.
- 7) Bidder should provide list of clients and their contact details and the installation/commissioning reports.
- 8) 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.
- 9) 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.
- 10) Each SI/bidder is allowed to bid directly or through single OEM for this tender. (Manufacturer Authorization Form (MAF) from OEM with specific reference to this tender is to be attached).
- 11) Tenderer 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.
- 12) Earnest Money Deposit (EMD): As per clause 9 of the General Terms and Conditions under section 10.
- 13) Escalation matrix with full contact details, for the resolution of reported issues during contract period.
- 14) **Start ups:** In order to promote make in India and startups, the prior turnover and prior experience for all startups shall be relaxed 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 of Industrial Policy and Promotion, Ministry of Commerce and the certificate should be certified by the Chartered Accountant or should be registered with GeM as startup. Applicable certificate should be enclosed.

- 15) 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.
- The bids submitted without EMD Declaration (as per clause 6 under section 9 of General terms and conditions) will be summarily rejected and no further communication in this regard will be entertained.

10. **Contents of the Bid:** The quote should be submitted in two bid format. (i) Technical Bid and (ii) Commercial Bid

**Technical Bid:** Technical 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 quotations will not be accepted.

**Table 1: Technical Bid**

S No	Description	Compliance status Yes / No	Page number against the Proof attached.	Remarks/ Deviation s, 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.	Bank details of the firm:			
6.	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.)			
7.	The bidder should provide profile of their company including its infrastructure, technical manpower and their expertise.			
8.	Product catalogues / data sheets of the items offered. Make and model for the line items to be submitted.			
9.	The quoted data logger should work with the INSAT system and three years INSAT working experience should be provided.			
10.	The Bidder should have an average annual financial turnover of Rs. 97.00 lakhs or more during the last three years ending March 31, 2023. Proof of turnover			

S No	Description	Compliance status Yes / No	Page number against the Proof attached.	Remarks/ Deviation s, if any																
	<p>and Proof of annual profit certificate issued by the chartered accountant to be submitted.</p> <table><tr><th>Financial year</th><th>Details of Turnover</th><th>Details of Profit</th><th>Details of Net worth</th></tr><tr><td>2022-23</td><td></td><td></td><td></td></tr><tr><td>2021-22</td><td></td><td></td><td></td></tr><tr><td>2020-21</td><td></td><td></td><td></td></tr></table>	Financial year	Details of Turnover	Details of Profit	Details of Net worth	2022-23				2021-22				2020-21						
Financial year	Details of Turnover	Details of Profit	Details of Net worth																	
2022-23																				
2021-22																				
2020-21																				
11.	<p>Tenderer should have past experience in last three years ending previous day of last date of submission of the online Bid. 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><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><tr><td></td><td></td><td></td><td></td><td></td></tr></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																
12.	Bidder should provide list of clients and their contact details and the installation/commissioning reports.																			
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 manufactures 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) from OEM with specific reference to this tender is to be attached).																			
16.	Tenderer 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 9 of the General Terms and Conditions under section 10.																			
18.	Escalation matrix with full contact details, for the resolution of reported issues during contract period.																			
19.	<b>Start ups:</b> In order to promote make in India and startups, the prior turnover and prior experience for all startups shall be relaxed subject to their meeting of quality, technical specifications and tender																			

S No	Description	Compliance status Yes / No	Page number against the Proof attached.	Remarks/ Deviations, if any
	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 of Industrial Policy and Promotion, Ministry of Commerce and the certificate should be certified by the Chartered Accountant or should be registered with GeM as startup. Applicable certificate should be enclosed.			
20.	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			

**Table-2: Compliance Statement – 2**

Seral No	Technical parameter/Description	Specifications	Compliance status Yes / No and Model NO	Page NO against the proof attached and Remarks/ Deviations if any
1	Sensor and Communication interface with protocol	Real time : The instrument should be capable for transmitting data in real time through GPRS and serial data to satellite transmitter (INSAT) SIM support: one slot 4G fallback to 3G/ 2G/ GSM Interfaces: d) SDI-12 for sensor e) 2 No. min of RS-232 for communication and 1 No. of RS-232 for PC Configuration. f) 1 No. of RJ-45 for communication and configuration Protocol : TCP/IP stack, FTP, SNMP,HTTP etc		
2	ADC resolution	24bit min		
3	Clock Type	Real Time Clock- RTC, synchronize with GPS clock accuracy 10µs		
4	RTC battery	Internal battery for clock		
5	Accuracy	01% over temperature range		
6	Memory	Min. 128MB for recording and storing continuous data for at least 1 year @ 1 minute recording interval and log and configuration file. Removal Media: USB Drive, SD Cards (16GBMinimum or higher)		
7	Data logger Battery	Sufficient Internal Battery backup for 12hrs of operation (including for RADAR sensor)		
8	Power Supply	12V DC nominal, through solar panel charge controller		
9	Accessing the Tide gauge station during the maintenance activity	Is it comply with specifications provided		
10	Temperature range and Relative Humidity	Is it comply with specifications provided		
11	Software	Is it comply with specifications provided		
12	Serial port output data format to satellite transmitter	Is it comply with specifications provided		
	Data Transmission	Every 1 minute		



	Interval			
13	Offset adjustment	Should be available for sensor value offset adjustment through local and remotely		
14	Power consumption/Operating current	Is it comply with specifications provided		
15	Housing	Is it comply with specifications provided		
16	Standards	Is it comply with specifications provided		
17	Outdoor operational conditions	Is it comply with specifications provided		
18	Mounting Tower and accessories	Data logger system mounting on a tower. The tower should be rugged, rust proof and withstand to ocean climatic conditions		
19	Other Requirements	<ul style="list-style-type: none"> <li>➤ The Data logger should be able to send data through serial port and GPRS as per INCOIS Annexure</li> <li>➤ Interconnecting cables</li> <li>➤ Unit service availability in India</li> <li>➤ Display &amp; Keyboard : Optional</li> <li>➤ GPRS modem should have a provision to store the data in its internal buffer during an event of non-availability of signal. Whenever the signal strength is restored, such data should be transmitted through FTP.</li> <li>➤ User manual-2 sets of Hard and soft copies each</li> <li>➤ User friendly online/offline web-page based configuration shall be possible through both Ethernet and Wifi connection. Local data download via embedded webpage and USB/ethernet</li> <li>➤ It should have Over the Air Firmware Updating capability</li> <li>➤ It should be accessible by secured remote connection from Desktop &amp; Mobile App</li> <li>➤ The data logger must be capable of pushing logged and converted data files to three separate FTP servers.</li> <li>➤ The data logger must support email alerts for various functions such as tracking, power, reboots, logging, status, etc.</li> <li>➤ Training : Detailed training on data logger functionality and using of software.</li> </ul> <p>Note: The quoted data logger model should have been working for sea level measurement in the last 3 years. The vendor needs to submit the details of previous experience and installation reports and details should be independently verifiable.</p>		
20	Application Software	Is it comply with specifications provided		
21	Graphical Display	Is it comply with specifications provided		
22	Telemetry Scope	Is it comply with specifications provided		
23	Solar Module and charge controller	Is it comply with specifications provided		
24	Solar charge controller	Is it comply with specifications provided		
25	Battery	Is it comply with specifications provided		

26	Interconnecting cables, connectors, lugs and conduits:	Is it comply with specifications provided		
27	Fencing, Tower & Civil work.	Is it comply with specifications provided		
28	The quoted Radar Sensor model should have been working for sea level measurement in the last 3 years in Indian waters. The vendor needs to submit the details of previous experience and installation reports and details should be independently verifiable.	Is it comply with specifications provided		
29	GPRS (External/Internal)	Is it comply with specifications provided		
30	GPS Receiver:	Is it comply with specifications provided		
31	Onsite Warranty Up to January 2026 details	Are you comply with details provided in onsite Warranty		
32	Site Survey : as mentioned in the specifications	Are you comply with site survey.		
33	The quoted data logger model should have been working for sea level measurement in the last 3 years in Indian waters. The vendor needs to submit the details of previous experience and installation reports and details should be independently verifiable.	Is it comply and provided the details.		
34	The quoted data logger model should have been working with INCOIS INSAT transmitters in the last 3 years in Indian waters. The vendor needs to submit the details of working experience and installation reports and details should be independently verifiable.	Is it comply and provided the details.		
35	Power Budget	Included the power budget as per specifications mentioned.		
36	The quoted Radar Sensor model model should have been working with INCOIS INSAT transmitters in the last 3 years in Indian waters. The vendor needs to submit the details of working experience and installation reports and details should be independently verifiable. This is to make sure no interference between radar sensor and INCOIS transmitters.	Is it comply with specifications provided		

37	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.	Is it comply with specifications provided		
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**Table-3: Compliance Statement – Un Price Bid**

**NOTE:**

- Part/conditional/incomplete quotations will not be accepted.
- Bidder has to quote for all the components given in the Price bid. Hence, please indicate as Yes or No in the table given below.

S. No	Item Description	Quantity	Please confirm whether prices are Quoted in commercial bid or not. (Yes/No) <u>Please do not mention/quote prices here.</u>
1	Supply, Installation, Integration and Commissioning of 14 No. of Tide Guage system in Indian Coasts, islands and data collection in Real time at INCOIS along with onsite warranty upto 31.01.2026		
a)	RADAR water Level sensor with accessories as per Section 3 of IX	14 Sets	
b)	Multi-channel data logger (internal/external GPRS modem) with accessories (interconnecting cables) and telemetry scope as per Section 3 of I, V, XI, XII	14 Sets	
c)	Solar module and charge controller along with mounting kit for data logger as per Section 3 of II & III	14 Sets	
d)	Batteries for data logger as per Section 3 of IV	14 Sets	
e)	4 Mtr Tower for mounting the Data logger, Solar panel with charge controller and battery, 1.5mtr steel retractile arm for supporting the Radar sensor and Transmitter Section 3 of IV, V, VI, VII, VIII, IX	14 Sets	
f)	Internal/External GPS Receiver as per Section 3 of X	14 Sets	
g)	Lightning arrester for safety of equipment as per the site requirements asper section 3 of IV, V, VI, VII, VIII, IX	14 Sets	
h)	Interconnecting cables and required accessories. As per the site requirements as per section 3 of V	14 Sets	
i)	Site Survey - Mainland asper Section 3 of XIII	15 Sets	
j)	Site Survey- Island as per Section 3 of XIII	5 Sets	
k)	Earthing for the tide gauge equipment as per the site requirements. As per section 3	14 Sets	
l)	Installation and commissioning including transportation to designated sites after inspection of material at INCOIS	14 Sets	

**11. General terms and Conditions**

Point No.	Details
1.	Quotation: Quotation has to submit online in the Government E Marketplace at <a href="http://gem.gov.in">http://gem.gov.in</a> .
2.	A two-bid system will be followed in selecting the vendor
3.	INCOIS expects the bids submitted by Bidder should meet the requirements, provisions,

	specifications, etc. as stipulated in the tender Document without any deviations and exceptions.
4.	<b>Validity Period:</b> Bids/Offer shall have the validity period of 90 days from the tender closing date.
5.	<b>Completion period:</b> <ul style="list-style-type: none"> <li>Successful bidder has to deliver the material at INCOIS as per BOM with in 30days from the date of acceptance of the order.</li> <li>Successful bidder has to complete the installation and commissioning at the designed sites with in 45 days from the date of acceptance of the material at INCOIS.</li> </ul>
6.	<b>* Acceptance of the order by successful bidder upon AOC:</b> Within 10days from the date of issue of the PO/Order. If the acceptance communication is not received with in 10days. Then PO would be deemed as accepted and binding to the successful bidder.
7.	<b>Payment terms:</b> <ul style="list-style-type: none"> <li>60 % payment will be released upon supply and acceptance of materials at INCOIS, Hyderabad along with commercial invoice.</li> <li>30% payment will be released on prorata basis upon transportation of material from INCOIS Hyderabad to designated sites , completion of Installation, Integration and successful Commissioning of Tide Guage System at each designated sites along with 10 days continuous satisfactory real time data transmission receipt at INCOIS.</li> <li>Balance 10% will be released upon satisfactory completion of onsite standard warranty upto January 31, 2026.</li> </ul> <p><i>Net payment will be released after statutory deductions. No advance payment will be allowed, and no other payment terms will be considered.</i></p>
8.	<b>Onsite Warranty &amp; Maintenance Clause:</b> Please refer Section 4, 5 & 6 at Page 11& 12
9.	<p><b>Earnest Money Deposit (EMD):</b> Rs.3,90,000 /- (Rupees three lakhs ninety thousand only) has to be submitted by way of Demand Draft/RTGS from any Nationalized Bank in favor of "Director, INCOIS payable at Hyderabad" .The Scanned copy of the Demand Draft/RTGS/ Bank Guarantee/FDR /Insurance Surety Bond is to be uploaded to the GeM Portal while submitting the offer. Bank Guarantees/Counter Guarantees should be obtained from any of the Nationalized/schedule bank of India with a validity of 6 months from the closing of the bid due date and should be sent by the issuing banker directly to the office of INCOIS, Hyderabad.</p> <p><i>The original DDs/ Financial Instruments if any should reach to INCOIS on or before 14:00 Hrs of 29.10.2024. ie., before closing of the bid submission date. Offers received without EMD &amp; bid securing declaration as per Annexure-2 will be summarily rejected. (RTGS details: Name of the Bank: SBI, HAL campus Branch; Account Name: Director, INCOIS; A/c No. 10442322840; IFSC Code: SBIN0001676)</i></p> <p>Indian Vendors registered with Ministry of Micro Small Enterprises (MSE) /National Small Scale Industries Corporation (NSIC) are exempted from payment of EMD only <u>if the Indian vendor is manufacturing and supplying the tendered products for this NIT.</u> A copy of valid registration certificate should be submitted along with bid securing declaration to be submitted on the bidding firm's letter head duly signed and stamped by the authorized signatory as per Annexure -I</p>
10.	<b>Security Deposit:</b> Successful bidder has to submit 05% of the order value within 15days of acceptance of order towards Security deposit by means of Demand Draft/NEFT/RTGS drawn in favour of Director, INCOIS payable at Hyderabad or Bank Guarantee from any Nationalized/scheduled Bank valid for upto 05 months. This deposit will be free of interest and is refundable after the satisfactory execution of the contract and complete fulfillment of contractual obligations.
11.	<p>Security Deposit is liable to forfeiture in the event of:</p> <ol style="list-style-type: none"> <li>Non-Execution order during validity period of the contract</li> <li>If the service of the successful bidder is found to be unsatisfactory and fails to adhere to our tender terms and conditions.</li> <li>Any unilateral revision/decision made by the successful bidder during the validity period of the contract.</li> </ol>
12.	Bidder's from a country which shares a land border with India will not be eligible to participate in this tender, unless the bidder is registered with Department for Promotion of Industry and Internal Trade (DPIIT) under Order (Public procurement No. 1) issued by Ministry of Finance, Department of Expenditure in line with OM No. F.No.6/18/2019-PPD dt 23rd July, 2020 and F.18/37/2020-PPD, dt. 08.02.2021inserting Rule 144 (xi) in GFR 2017.

13.	<b>Start ups:</b> In order to promote make in India and startups, the prior turnover and prior experience for all startups shall be relaxed 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 of Industrial Policy and Promotion, Ministry of Commerce and the certificate should be certified by the Chartered Accountant or should be registered with GeM as startup. Applicable certificate should be enclosed.
14.	<b>GST:</b> 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.
15.	<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. a) 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. b) To purchase elsewhere, after due notice to the Tenderer 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 c) 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. d) To extend the period of delivery with or without penalty shall not be more than agreed liquidated damages referred to in clause (a) above, e) To forfeit the security deposit full or in part at the discretion of Director, INCOIS.
16.	Please note that any falsification/suppression of information could lead to the disqualification.
17.	Bidders should fill and submit the technical compliance sheet along with supporting documents along with Techno-Commercial bid. Offers received without the compliance sheet will be summarily rejected.
18.	Tenders not in complete shape or not conforming to technical specifications or not confirming to terms and conditions are liable for rejection.
19.	All above relevant documents must be enclosed with technical bids failing which bids may be ignored and will not be considered for technical evaluation.
20.	Proof for fulfillment of eligibility criteria mentioned above should be submitted along with the tender. If the tender is submitted without valid documents, INCOIS shall not consider the bid offered as responsive. Tenders received without proof of eligibility criteria will be rejected
21.	Any deviations technically or commercially should be clearly indicated in the Technical bid offer only.
22.	The Contractor shall ensure safety and security of all workforce employed for this work and equipments 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 ie., 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.
23.	<b>Force Majeure Clause:</b> If the execution of the contract / supply order is delayed beyond the period stipulated in the contract as a result on out-break of hostilities, declaration of an embargo's or blockage or fire flood, acts of nature or any other contingency , pandemic declared by WHO/Govt. authorities causing stoppage of work beyond the supplier's /INCOIS control, Director, INCOIS may allow such additional time by extending the delivery period as he considers to be justified by the circumstances of the case and his decision shall be final, conclusive and binding. If and when additional time is granted by the INCOIS, the contract/supply shall be read and understood as if it had contained from its inception the delivery date as extended.
24.	If any tenderer withdraws his tender after price bid is opened, with in the validity period or makes any modifications in the terms and conditions of tender, which are not acceptable to the INCOIS,

	then INCOIS shall without prejudice to any other right or remedy available to it, be at liberty to initiate appropriate action w.r.t bid for forfeit of EMD & bid securing declaration in case of MSEs.
25.	The bidder shall sign and upload the Bids with the exact name and address of the firm, which is bidding for the tendered requirement.
26.	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.
27.	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.
28.	Director, INCOIS reserves the right to cancel the tender at any stage due to any technical /administrative reasons. The bidder shall not have any claim under what so ever reasons.
29.	Canvassing in connection with tender is strictly prohibited and any canvassing will render the bid of such tenderer ineligible.
30.	INCOIS reserves the right to alter the scope/or reduce quantum of work, before/after issue of work order and tenderer shall not have any claim whatsoever on this account.
31.	In case of any un resolved 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

## 12. Technical Clarifications: -

If firms require clarifications on certain points in this document may be submitted (via e-mail) on or before 09 00 Hrs of October 18, 2024. Note: Firms may submit a consolidated query only once. e-mail: aneesh@incois.gov.in E-mail subject should be mentioned as "Queries on Supply, Installation, Integration and Commissioning of 14 No. of Tide Guage System in Indian coasts, islands and data collection in Real time at INCOIS".

### 1) Division Head, OON

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, T.S., India  
Phone No.: 040-2388 6038  
Fax No.: 040-23895001 / 23892910  
e-mail: aneesh@incois.gov.in

**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 for engagement of service provider for "Supply, Installation, Integration and Commissioning of 14 No. of Tide Guage System in Indian coasts, islands and data collection in Real time at INCOIS along with onsite warranty upto 31.01.2026"

Signature of the Tenderer/ Authorised Signatory & date

Name

OFFICE SEAL,

Address

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

**BID-SECURING DECLARATION FORM**

Bid No. INCOIS:PUR:19/2024 date 08.10.2024 "Supply, Installation, Integration and Commissioning of 14 No. of Tide Guage System in Indian coasts, islands and data collection in Real time at INCOIS along with onsite warranty up to 31.01.2026".

**To**

**The Director**

**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,**

I/We the undersigned, declare that: I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any tender/contract with INCOIS for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, i.e., if I/We withdraw, modify, amend, impair or derogate from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Dated on \_\_\_\_\_ day of \_\_\_\_\_

**Signature of the Tenderer/Authorised Signatory & date**

**Name of the authorized signatory:**

**Designation:**

**OFFICE SEAL,**

**Name of the Bidder:**

**Address:**

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)