

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: 11/2025
Ref. INCOIS: PUR: 11/2025

दिनांक: 03.03.2025
Date: 03.03.2025

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

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

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

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

क्र. सं. / 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)	इंकोइस, हैदराबाद में एक डुअल-सेल इंड्यूस्ड ड्राफ्ट FRP कूलिंग टॉवर का डिज़ाइन, आपूर्ति, स्थापना, परीक्षण और कमीशनिंग (DSITC) जिसमें मौजूदा कूलिंग टावर्स का डिस्मैंटलिंग, बाय-बैक और हटाना शामिल है, साथ ही एक साल की व्यापक वारंटी। "Design, Supply, Installation, Testing & Commissioning (DSITC) of One Dual-Cell Induced Draft FRP Cooling Tower Including Dismantling, Buy-Back and Removal of Existing Cooling Towers with One-Year Comprehensive Warranty at INCOIS, Hyderabad."	इंकोइस: क्रय: 11/2025 INCOIS: PUR: 11/2025	जीईएम/2026/बी/7312137 दिनांक: 02.03.2026 GEM/2026/B/7312137 dated 02.03.2026	23.03.2026 19:00:00

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

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

नोडल अधिकारी / Nodal Officer

एनआईटी / NIT

ई-क्रय / e Procurement



प्रशासनिक अधिकारी (क्रय) / Administrative Officer (Purchase)
निविदा आमंत्रण प्राधिकारी, इंकोइस/
Tender Inviting Authority, INCOIS

(V. Subrahmanyam)



बिड दस्तावेज़ / Bid Document

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	23-03-2026 19:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	23-03-2026 19:30:00
बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)	90 (Days)
मंत्रालय/राज्य का नाम/Ministry/State Name	Ministry Of Earth Sciences
विभाग का नाम/Department Name	Department Of Earth Sciences
संगठन का नाम/Organisation Name	Earth Sciences Secretariate
कार्यालय का नाम/Office Name	Indian National Centre For Ocean Information Servi
कुल मात्रा/Total Quantity	3637
वस्तु श्रेणी /Item Category	Cooling Tower 1 , Pipes and Fittings 2 , Pipes and Fittings 3 , Pipes and Fittings 4 , Pipes and Fittings 5 , Pipes and Fittings 6 , Butterfly valves 7 , Butterfly valves 8 , Butterfly valves 9 , Butterfly valves 10 , Butterfly valves 11 , Circuit 12 , temp guage 13 , Pressure Guage 14 , temp sensor 15 , Water Meter 16 , MS Structure 17 , Cooling fan 18 , armoured cable 19 , armoured cable 20 , Copper cable 21 , Copper cable 22 , Removal 23 , Vents 24 , civil works 25 , ancillary items 26 , Transportation 27 , Butterfly valves 28
GeMARPTS में खोजी गई स्ट्रिंग्स / Searched Strings used in GeMARPTS	Cooling Tower
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Fan Blades for Cooling Tower fan Rev 1, Emergency lighting and accessories (Portable Emergency Lighting System Tower type with Battery Bank), Tower Ladder (V2), Tower Bolts (Ferrous Metals) as per IS 204, High Mast Lighting Tower for large area with LED Flood Lighting System, Centrifugal Cooling Water Pump (IOCL), PVC Fills for Colling Tower, Industrial Cooling Fan (Man Coolers) (V2) Conforming To IS 6272, Corrosion Inhibitors for Cooling Water treatment, Servers (V2)
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> • Condenser Coil • Fan Blades for Cooling Tower fan Rev 1
बीओक्यू शीर्षक /BOQ Title	DSITC of FRP Cooling Towers under buy back and removal
बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का) /Minimum Average Annual Turnover of the bidder (For 3 Years)	16 Lakh (s)

बिड विवरण/Bid Details	
उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष/Years of Past Experience Required for same/similar service	3 Year (s)
टर्नओवर के लिए एमएसई को छूट प्राप्त है / MSE Relaxation for Turnover	Yes Partial Turn over value - 16 (in lakhs)
टर्नओवर के लिए स्टार्टअप को छूट प्राप्त है / Startup Relaxation for Turnover	Yes Partial Turn over value - 16 (in lakhs)
विक्रेता से मांगे गए दस्तावेज़/Document required from seller	Experience Criteria,Bidder Turnover,Certificate (Requested in ATC),Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेजों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ में है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)
बिड लगाने की समय सीमा स्वतः नहीं बढ़ने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension	3
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	7
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count	1
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	Yes
रिवर्स नीलामी योग्यता नियम/RA Qualification Rule	H1-Highest Priced Bid Elimination
बिड का प्रकार/Type of Bid	Two Packet Bid
प्राथमिक उत्पाद श्रेणी/Primary product category	Cooling Tower 1
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	3 Days
निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
मूल्यांकन पद्धति/Evaluation Method	Total value wise evaluation
वित्तीय दस्तावेज की आवश्यकता है / Financial Document Required	Yes

बिड विवरण/Bid Details

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

ईएमडी विवरण/EMD Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईएमडी राशि/EMD Amount	64000

ईपीबीजी विवरण /ePBG Detail

आवश्यकता/Required	No
--------------------------	----

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

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

लाभार्थी /Beneficiary :

DIRECTOR INCOIS
Payable at INCOIS, Pragathi Nagar, Indian National Centre for Ocean Information Services, Ministry of Earth Sciences, Govt. of India, Pragathi Nagar, Hyderabad-90
(Director Incois)

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

एमआईआई खरीद वरीयता / MII Purchase Preference

एमआईआई खरीद वरीयता / MII Purchase Preference	Yes
मेक इन इंडिया विक्रेताओं को खरीद में प्राथमिकता, यदि उनका मूल्य L1+X% तक की सीमा में है / Purchase Preference to MII sellers available upto price within L1+X%	20
मेक इन इंडिया खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Maximum Percentage of Bid quantity for MII purchase preference	50

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

एमएसई खरीद वरीयता/MSE Purchase Preference

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

1. If the bidder is a Micro or Small Enterprise (MSE) as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Bidder Turnover" as defined above subject to meeting of quality and technical specifications. If the bidder itself is MSE OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover, shall upload the supporting documents to prove his eligibility for Relaxation.
2. If the bidder is a DPIIT registered Startup, the bidder shall be relaxed from the the eligibility criteria of "Bidder Turnover" as defined above subject to their meeting of quality and technical specifications. If the bidder is DPIIT Registered OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover shall upload the supporting documents to prove his eligibility for Relaxation.
3. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM of the product offered in the bid {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts and delivery acceptance certificates like CRAC to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
5. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers

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.

8. Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases:

- i. If number of technically qualified bidders are only 2 or 3.
- ii. If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N.
- iii. In case Primary product of only one OEM is left in contention for participation in RA on elimination of H-1.
- iv. If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1
- v. If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1

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

PRICEBID - [1772454459.xlsx](#)

Cooling Tower 1

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

परिषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	परिषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	1	90

Pipes And Fittings 2

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

परिषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	परिषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	15	90

Pipes And Fittings 3

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	40	90

Pipes And Fittings 4

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
---------------	---	-------------	-----------------	------------------------------

क्र.सं./S.No.	प्रेषिता/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Girdhar	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	10	90

Pipes And Fittings 5

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

प्रेषिता/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.No.	प्रेषिता/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Girdhar	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	90

Pipes And Fittings 6

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	10	90

Butterfly Valves 7

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	2	90

Butterfly Valves 8

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	4	90

Butterfly Valves 9

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
-------------------	---	-------------	-----------------	---------------------------------

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	2	90

Butterfly Valves 10

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	1	90

Butterfly Valves 11

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	परिचिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	3	90

Circuit 12

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	परिचिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	2	90

Temp Guage 13

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

नीकी विशिष्टियाँ / Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.No.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	4	90

Pressure Guage 14

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

तकनीकी विशिष्टियाँ / Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.No.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
---------------	--	-------------	------------------	------------------------------

क्र.सं./S.N o.	परेषिती/रिपोटिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	4	90

Temp Sensor 15

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

परेषिती/रिपोटिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	परेषिती/रिपोटिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	1	90

Water Meter 16

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	1	90

MS Structure 17

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	3000	90

Cooling Fan 18

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	1	90

Armoured Cable 19

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
-------------------	---	-------------	------------------	---------------------------------

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	25	90

Armoured Cable 20

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	150	90

Copper Cable 21

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	परिषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	200	90

Copper Cable 22

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	परिषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	100	90

Removal 23

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

परिषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.No.	परिषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	1	90

Vents 24

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

परिषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.No.	परिषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
---------------	---	-------------	------------------	------------------------------

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	2	90

Civil Works 25

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	1	90

Ancillary Items 26

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	1	90

Transportation 27

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	1	90

Butterfly Valves 28

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

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	50	90

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

1. Generic

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

2. Service & Support

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

3. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

**Design, Supply, Installation, Testing & Commissioning (DSITC)
of One Dual-Cell Induced Draft FRP Cooling Tower Including Di
smantling, Buy-Back and Removal of Existing Cooling Towers w**

With One-Year Comprehensive Warranty at INCOIS, Hyderabad

Contract completion Period: The completion period for the entire DSITC work shall be Three (03) months from the date of issue of Work Order / Purchase Order (PO) on GeM ("Contract Completion Period"). The completion period shall include all activities such as structural assessment & certification, design/shop drawings, procurement, delivery, lifting/cranage, dismantling/removal of old towers, civil/foundation works, installation, piping/valves/instrumentation, electrical works including VFD panel & cabling, testing & commissioning, documentation and training. Time is the essence of the contract. Completion shall be strictly as per the Contract Completion Period and/or any milestone schedule approved by INCOIS. Requests for extension of time due to force majeure or client-caused delays shall be submitted by the contractor in writing within 07 days of the occurrence. INCOIS shall consider and respond within 14 days.

Payment terms:

- 90% of the contract value shall be paid payment within 30 days after completion of the entire work viz., Design, Delivery, Installation, Commissioning, testing, training, acceptance and submission of Ink Signed Original Invoice, applicable Test Certificate, Pre-shipment inspection/Q.C. passed certificate, Installation Report, warranty undertaking and dismantling/ removal of buyback material etc.
- 10% will be paid after successful completion of one year warranty period or against submission of bank guarantee from a nationalized/scheduled bank for the like amount valid for a period of 01 year 02 months.
- Any variation in the quantities (Extra/substitute/Deviation items) shall be regulated as per the C/PWD approved clauses/practices. However, the basic rule of "payment as per actual measurements" shall prevail.

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

Technical Specifications of Buyback Item:

SNo	Description	Specifications
1.	Item Description:	Cooling Towers
2.	Serial Numbers:	a) 03-2E0429A b) 03- 2E0429B c) 03 - 2E0429C
3.	Model:	CT Model 3861
4.	Brand:	PAHARPUR Make
5	Year of manufacturing:	2003
6.	Purchased on:	2003
7.	Age:	22 years

8.	Quantity:	03 Nos
9.	Working Guidelines (/Functional/Non-Functional):	Non -Functional

4. Buyer Added Bid Specific ATC

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

अस्वीकरण/Disclaimer

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.
15. Buyer added ATC Clauses which are in contravention of clauses defined by buyer in system generated bid template as indicated above in the Bid Details section, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by GeM GTC.
16. In a category based bid, adding additional items, through buyer added additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogs or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller 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.

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

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

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

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

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

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

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।/in terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---धन्यवाद/Thank You---



INCOIS: PUR: 11 /2025

02.03.2026

Request for the Proposal of Design, Supply, Installation, Testing & Commissioning (DSITC) of One Dual-Cell Induced Draft FRP Cooling Tower Including Dismantling, Buy-Back and Removal of Existing Cooling Towers with One-Year Comprehensive Warranty at INCOIS, Hyderabad.

Dear Sirs,

On behalf of Director, INCOIS tenders are invited in "Two Bid System" (Part -I Techno - Commercial Bid) from Contractors with appropriate registration having adequate resources and setup for dealing with dual-cell cooling tower.

1.	Name of the work	:	Design, Supply, Installation, Testing & Commissioning (DSITC) of One Dual-Cell Induced Draft FRP Cooling Tower Including Dismantling, Buy-Back and Removal of Existing Cooling Towers with One-Year Comprehensive Warranty at INCOIS, Hyderabad.
2.	BID Reference No.	:	INCOIS: PUR: 11/2025 dt 02.03.2026
3.	Earnest Money Deposit (EMD)	:	Rs. 64,000/- (Rupees sixty four thousand only)
4.	Site Visit	:	On March 09,2026, @ 02.00 pm
5.	Last date for seeking clarifications	:	March 13, 2026 - 11.00 am
6.	Due date Bid submission	:	March 23, 2026 - 06.00 pm
7.	Bid opening date	:	March 23, 2026 - 06.30 pm

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

Being a GeM procurement, the bid has to submitted online through the GeM portal ie., <https://gem.gov.in>. For any assistance, please contact help line of GeM portal. The following officials may also be contacted Mr. V. Subrahmanyam (email: manyam@incois.gov.in; Phone No. 040 23886022)/Mr. Dasari Prasad (email: dasariprasad@incois.gov.in Phone No. 040-2388 6082)

Postal Address	Location
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

Index:

Sl No.	Description	Page No.
1.	Introduction	02
2.	Scope of the Work	02
3.	Technical Specification	05
4.	Eligibility criteria	08
5.	Contents of the Bid	09
6.	Non-conformance / failed acceptance tests / warranty default	18
7.	General Terms and Conditions	18
8.	Technical Clarifications	21
9.	Site Visit	21
10.	Bank Guarantee format for Bid Security	Annexure-I
11.	Format for Bank Guarantee for Advance Payment	Annexure-II
12.	Bid-Securing declaration Form- Annexure	Annexure -III
13.	Details of Buy Back Item	Annexure -IV

1. Introduction

The Indian National Centre for Ocean Information Services (INCOIS), Hyderabad, is mandated to provide ocean information and advisory services to a wide range of stakeholders through sustained ocean observations and focused research activities. In this context, INCOIS operates and maintains multiple ocean observing networks and undertakes process-specific field campaigns to study various oceanographic processes. Data generated from these observing networks and field campaigns are effectively utilized for delivering ocean information and advisory services, as well as for the calibration and validation of ocean models and satellite-derived products

INCOIS proposes replacement of the existing 03 nos. old cooling towers (125 TR each) with 01 no. new dual-cell cooling tower to improve reliability, maintainability, energy optimization, water efficiency, and readiness for automation/BMS integration, with measurable acceptance provisions.

2. SCOPE OF WORK (DSITC)

2.1 General

- a) The Contractor shall execute the work on Design, Supply, Installation, Testing & Commissioning (DSITC) basis for replacement of the existing cooling towers with one dual-cell cooling tower at INCOIS, Hyderabad, including dismantling/removal/disposal of old towers and complete integration with the existing condenser water system. The installation shall be on the Substation Building terrace and shall be executed with strict safety, housekeeping and quality controls, considering INCOIS's round-the-clock operational mandate.
- b) The new cooling tower shall be installed on the terrace of the Substation Building, requiring strict attention to structural verification, lifting/cranage methodology, waterproofing protection/restoration, controlled drainage routing, and safe long-term access for maintenance.
- c) The supplied cooling tower shall be CTI Thermal Certified under CTI STD-201, and the offered model line shall be verifiable in CTI's certification directory through CTI listing/validation evidence.
- d) Unless expressly permitted by INCOIS in writing, no substitutions that dilute performance, safety, corrosion resistance, controls capability, or maintainability shall be accepted.
- e) The contractor shall execute the work on DSITC basis, including dismantling/removal/disposal of old towers which are under buy back (Annexure -IV), terrace civil/structural works, piping/valves/instruments, electrical drives/panels, controls/BMS integration inputs, water management provisions, and testing/commissioning.
- f) The Contractor shall restore the terrace area to a clean, safe condition after dismantling, including making-good of penetrations and removal of temporary supports.
- g) Bidders are strongly advised to inspect the site and satisfy themselves regarding layout, access and logistics prior to bidding; the bidder shall be deemed to have examined site conditions and incorporated all necessary provisions in the offer.

2.2 Pre-engineering, site survey, and submissions

2.2.1. The Contractor shall conduct a detailed site survey and submit a complete engineering package prior to procurement/fabrication, including:

- a) General Arrangement (GA) drawings of cooling tower, base frame and access provisions.
- b) Piping layout with tie-in points, supports, slopes, drains/vents and equalizer line routing.
- c) Electrical Single Line Diagram (SLD) for the new panel(s), feeder tapping/modification plan, cable schedule and earthing layout.
- d) Control philosophy and interlock narrative for VFD mode + DOL bypass mode, lead/lag alternation, WBT-based speed control, alarms and indications.
- e) List of BoM/Make/Model offered (for reference only), datasheets and compliance sheets against tender clauses.
- f) Method statement for lifting, material shifting, terrace handling, and protection of waterproofing.

2.2.2. INCOIS approval of drawings/submittals/piping drawings + schedule/cable schedule/electrical SLD is mandatory before execution. Approval shall not relieve the Contractor of responsibility for performance and completeness. No portion of work requiring these submittals shall be commenced until the drawing are approved by INCOIS. The approved schedules are for planning/control only. Payment shall be made strictly as per actual executed and accepted measurements recorded jointly in MB/measurement sheets. If routing/quantities change due to site conditions, contractor shall submit revised schedules and record the changes.

2.2.3 Submission/approval of schedules does not constitute acceptance of quantities; final payable quantities shall be only as per actual measurements.

2.3 Structural assessment and terrace suitability

2.3.1 The Contractor shall arrange structural assessment and certification of the Substation Building terrace/slab by a qualified structural engineer, covering:

- a) Dead load and operating load (water-filled), dynamic/vibration loads, and wind/seismic considerations.
- b) Load distribution, base frame design recommendations, anchoring method, and safety margin.
- c) Signed stability certificate and recommendations for strengthening (if needed).

2.3.2 No tower installation, drilling, anchoring or base frame erection shall commence until the structural assessment package is submitted and approved by INCOIS.

2.4. Civil works, waterproofing protection and restoration

2.4.1 The Contractor shall execute engineered civil works/housekeeping pads/foundations on terrace as required, including:

- a) RCC works (minimum grade as per structural stability), reinforcement, anchor bolts and non-shrink grouting.
- b) Waterproofing protection and restoration around anchors/penetrations and disturbed areas; restore slopes and finishes.
- c) Anti-slip finishing and proper drainage slope to avoid ponding.

2.4.2 The Contractor shall ensure controlled routing for overflow/drain/blow down discharge to approved drain points, preventing spillage, seepage and staining on building surfaces.

2.5. Supply, erection, and installation of the dual-cell cooling tower

- Supply, erection and commissioning of one dual-cell induced draft counter flow FRP cooling tower meeting the BoQ duty.
- Provide all standard accessories and safe access provisions (ladders/platforms/handrails, guards, bird screen).
- CTI STD-201 compliance: submit CTI listing/validation evidence for the offered model line.
- Provide factory QA documentation and packing list; ensure protection of FRP components during transport/lifting.
- One spares kit comprising of Spray nozzles kit + grommets - 1set (sufficient for 1 cell), Float ball - 1nos, WBT sensor (temp+RH element) - 1nos, SPD replaceable cartridge/module - 1set to be provided as mandatory spares along with the work. Spares shall be supplied as per listed. Spares shall be delivered along with commissioning and included in the contract price. Spares shall be genuine/compatible with the offered make/model and carry warranty as applicable
- The contractor shall arrange for cooling tower OEM authorized representative to be present during erection, installation & final commissioning. The representative shall sign the commissioning checklist and issue a commissioning certificate. The cost of such supervision shall be deemed included in the bid.

2.6 Piping, supports, coating, valves, balancing and equalization

- The Contractor shall supply, fabricate, install, test and commission condenser water piping as per BoQ sizes/lengths, including all fittings, elbows, reducers, flanges, gaskets, fasteners, and proper supports/anchors/guides.
- Coating: Apply FRP/epoxy coating as min. 3mm as specified in BoQ, including surface preparation, minimum thickness of 3mm, curing time between coats, and UV resistant top coat; submit thickness/QA records.
- Provide vents at high points and drains at low points, including automatic air vents DN25 with isolation valves at designated locations.
- Provide equalizer line between basins/cells to maintain hydraulic stability during staging.
- Valves: Provide butterfly valves (including those replacing ball valves as finalized by INCOIS).
- Balancing: Provide calibrated manual balancing valves/circuit setters and carry out commissioning to achieve equal/required flow split between cells, documenting final settings and readings.
- Embedded essentials as required as per site requirements (to avoid exclusions): As part of "necessary fittings/accessories" within BoQ piping scope, provide Flexible connectors/dismantling joints at tower inlet/outlet nozzles (2 per cell) with limit rods for vibration/thermal movement and ease of future maintenance.
- Testing: Hydrostatic test at 1.5× working pressure, operational leak test, flushing / cleaning and documentation.

2.7 Local gauges and instrumentation

- Provide local temperature gauges and local pressure gauges at the designated measuring points with isolation arrangement for service without draining.
- Provide Wet-Bulb Temperature sensor assembly (aspirated, outdoor rated) with transmitter output and cabling up to the VFD panel. Aspirated shield concept shall minimize solar radiation error.
- Provide make-up water meter with pulse/BMS output including installation hardware, straight lengths as required, and commissioning verification of totalizer and pulse output.

2.8 Electrical works, VFD control panel with VFD + DOL bypass, SPD, metering, indications and BMS integration

- The Contractor shall supply, install, test and commission a complete cooling-tower fan control panel system for two cell fans, including:
 - a) VFD mode + DOL bypass mode per feeder with safe interlocks (no simultaneous VFD output and bypass).
 - b) Incomer MCCB protections, feeder protections, emergency stop, local/remote and mode selectors, and fault logging.
 - c) Indications (minimum): RYB healthy, RUN, OFF, TRIP/FAULT, VFD mode, BYPASS mode for each feeder.
 - d) Energy meters for each fan feeder with Modbus output for logging.
 - e) Type-2 SPD at panel incomer as per IEC 61643-11 requirements and test methods.
 - f) Earthing/bonding for panel, VFDs, motors and tower structure, with test records.
 - g) BMS integration readiness: Provide Modbus RTU register map / interface documentation.
- Panel compliance: LV panel assembly shall be design-verified/routine-tested as per IEC 61439 principles (or equivalent), and shall submit type test / short-circuit withstand evidence. (CPRI short-circuit lab capability includes LV switchgear/controlgear and associated LT panel assemblies such as PCC/MCC/DBs; "CPRI tested or equivalent" shall be acceptable as per tender.)
- Cable works: Supply and lay power/control cables as per BoQ Items including trays/conduits, supports, glands, lugs, terminations, tagging, and testing (IR/continuity/functional checks).
- Necessary modification works in the existing panels including changing of the switchgear in the existing panel to meet the panel incomer ratings, laying of the suitable rated power cable to the Cooling tower VFD panel from the modified feeder in the existing panel, with trays/conduits, glands, lugs terminations, tagging & testing complete is also covered under the scope of the bidder.
- Necessary modification works in the existing electrical panels/switchboards, including replacement/augmentation of the outgoing feeder switchgear (MCCB/MCB/contactors/OLR as applicable) and any associated busbar/termination arrangements to match the required feeder rating, tapping power from the modified feeder, and supply/laying/termination/testing of suitably rated power cable from the existing panel to the Cooling Tower VFD Control Panel, complete with cable trays/conduits/supports, glands, lugs, ferruling, terminations, tagging, insulation resistance/continuity tests, and commissioning, shall be fully included in the bidder's scope and

quoted price. Any shutdown required for panel modification shall be planned and executed in coordination with INCOIS without compromising safety.

- Supply & provide IP65 emergency stop pushbutton station near the cooling tower for each fan/cell, wired to the VFD panel for immediate stop, near each fan motor for safe maintenance isolation. Necessary power/control wiring, conduits/trays, glands, lugs, terminations, ferruling, and testing are included.

2.9 Structural steel supports

- Fabricate and install MS structural support system/base frame on terrace as per approved design and structural engineer's recommendations, including coating as per BoQ, anchoring/grouting and alignment checks.
- Submit shop drawings, MTCs, coating QA records and as-built dimensions.

2.10 Testing, commissioning, documentation and training

- Commissioning shall include, at minimum:
 - a) Hydrotest, flushing/cleaning, debris removal.
 - b) Valve operation checks, balancing and documenting flow split between cells.
 - c) VFD mode test, DOL bypass mode test, interlocks, E-stop, indications and metering validation.
 - d) Verification of WBT sensor input and correct speed modulation behavior in VFD logic.
 - e) Verification of BMS points/Modbus mapping readiness and delivery of register map.
- Handover documentation shall include: Approved as-built GA and layouts, SLD/wiring, cable schedule, panel test certificates, commissioning checklists, O&M manuals, warranty certificates, and training completion record.
- Training: Provide structured training to INCOIS operators/maintenance staff on tower operation, VFD panel modes (VFD/BYPASS), and routine maintenance checks.

2.11 Site safety, housekeeping, and coordination (binding)

- The Contractor shall comply with INCOIS safety rules, provide PPE, barricading, work permits, and a lifting plan for crantage/rigging operations.
- Maintain clean housekeeping, prevent oil/chemical spillage, ensure controlled debris handling, and protect existing services/equipment in and around the substation/terrace.
- The Contractor shall coordinate shutdowns/tie-ins to minimize disruption to operations.

2.12 Pre dispatch inspection clause:

- PDI shall be only if INCOIS elects to conduct the same. INCOIS shall bear the travel & accommodation expenses of its representative(s) attending PDI. All testing facility charges and inspection material costs shall be borne by the contractor.
- Seller shall notify INCOIS (email) about readiness of goods for PDI and shall offer the goods for inspection with adequate notice.
- INCOIS shall take a call and intimate the Seller about the authorized representative / and the scheduled date of inspection as per the requirement.
- The goods/materials shall be dispatched only after clearance in the PDI and issuance of dispatch clearance by INCOIS.

3. Technical Specifications

3.0 General Requirements

- These specifications define minimum quality of materials, workmanship, testing, commissioning and documentation for the DSITC work and shall be read with the BoQ and Scope of Work.
- All equipment shall be new, unused, of proven design, suitable for outdoor terrace installation, and supported by OEM/authorized service in India. Benchmark makes are indicative; 'or equivalent' is permitted.
- Minimum standards/compliance: (a) CTI Thermal Certification under CTI STD-201 for cooling tower; (b) IP rating as per IEC 60529; (c) LV assemblies as per IEC 61439 series; (d) SPD as per IEC 61643-11; (e) Earthing/bonding as per CPWD electrical specifications based on IS 3043 and IS 732; (f) Concrete works as per IS 456; (g) Structural steel as per IS 2062.

3.1 Dual-Cell Cooling Tower Package

- Type: Twin-cell induced-draft, counterflow, open-circuit FRP cooling tower with FRP casing and FRP basin; UV-stabilized resin/gelcoat suitable for outdoor exposure.

- The cooling tower shall be of multi-cell (dual-cell) construction with independent fan/motor/VFD per cell, and shall be piped and valved such that either cell can be isolated and shut down for maintenance while the other cell remains in operation, subject to system load conditions. The design shall include adequate provisions for cell isolation (inlet/outlet isolation) and basin equalization (flume/equalizer) to prevent basin overflow/low level during any reasonable flow imbalance. External equalizer arrangements, where used, shall include valves to facilitate hydraulic isolation as required
- Basin: Provide drain, overflow, make-up connection, access for cleaning/inspection and safe maintenance.
- Fill: PVC film fill blocks, low-fouling type, modular and replaceable, suitable for condenser water service.
- Drift eliminators: PVC high-efficiency drift eliminators with drift loss not exceeding 0.005% of circulating water flow (maximum).
- Fans: Axial fans (one per cell), guarded, dynamically balanced; vibration within OEM limits.
- Motors: IE3 TEFC induction motors, minimum IP55, Class-F insulation, inverter-duty/VFD duty insulation suitable for PWM VFD operation. Motors shall be suitable for outdoor operation and continuous duty.
- Access & safety: MS Hot-Dip Galvanized or Superior material ladder/platform/handrails, anti-slip surfaces, fan guards, bird screen and safety signage.
- Performance duty: As per BoQ (Hot 35C / Cold 30C / WBT 27.2C / 960 USGPM / Heat rejection \geq 10,90,080 kcal/hr).
- CTI compliance: Bidder shall submit CTI STD-201 listing/validation evidence for offered model line; duty selection shall be from CTI certified model line.
- Submittals: GA drawing, weights (dry/operating), foundation load data, nozzle sizes, fan/motor datasheets, fill/drift data, O&M manuals, installation method and training plan.
- One spares kit comprising of Spray nozzles kit + grommets - 1set (sufficient for 1 cell), Float ball - 1nos, WBT sensor (temp+RH element) - 1nos, SPD replaceable cartridge/module - 1set to be provided as mandatory spares along with the work. Spares shall be supplied as per listed. Spares shall be delivered along with commissioning and included in the contract price. Spares shall be genuine/compatible with the offered make/model and carry warranty as applicable
- Benchmark makes (or equivalent): Any CTI STD-201 listed manufacturer/model line; examples commonly available in India include Paharpur / Delta / SPX Marley / EVAPCO / ADVANCE (or equivalent CTI-listed model line).
- The contractor shall arrange for cooling tower OEM authorized representative to be present during erection, installation & final commissioning. The representative shall sign the commissioning checklist and issue a commissioning certificate.

3.2 Condenser Water Piping and Fittings

- Materials/standards: MS pipes for condenser water service shall comply with IS 3589 for large sizes (typical 200/300 NB) and for sizes up to 150NB: IS 1239 (Part 1), Heavy class (equivalent to Class-C), where applicable for smaller sizes. Provide Mill Test Certificates (MTCs) for pipes and fittings.
- Fittings: Matching material and class, including bends/elbows/reducers, flanges, gaskets and fasteners. Provide compatible gasket material for water service.
- Fabrication/workmanship: Welding by qualified welders; proper alignment and leveling; adequate supports, guides and anchors; no undue load on cooling tower nozzles.
- Drains/vents: Provide vents at high points and drains at low points, including provisions for flushing and maintenance.
- Testing: Hydrostatic test at 1.5 times working pressure; operational leak test; flushing/cleaning; submission of test records and as-built mark-ups.
- Embedded accessories (to avoid exclusions): Flexible connectors/dismantling joints at each cell inlet and outlet (2 per cell) with limit rods, included as necessary accessories.
- Provide an isolation valve on the equalizer line and cleanout as required.
Benchmark pipes (or equivalent): Jindal / Tata / APL Apollo or any BIS-compliant manufacturer.

3.3 FRP/Epoxy Coating for Piping and Structural Steel

- Surface preparation: Thorough cleaning/degreasing and removal of rust/mill scale. Where blasting is feasible, blast to Sa 2.5 (ISO 8501-1). Where not feasible, mechanical cleaning to equivalent St 3 and apply compatible coating system.
- Coating build: Provide corrosion protection suitable for outdoor condenser water piping and steel supports. Scope requires FRP coating/paint minimum 3 mm thickness: provide glass-fibre reinforced

epoxy/FRP overwrap system to achieve minimum 3 mm total thickness on accessible pipe surfaces and steel members, with UV resistant top coat.

- Flanges/valve bodies: Where 3 mm FRP overwrap is not practicable, provide high-build epoxy/glass-flake coating with UV resistant top coat ensuring continuity of protection.
- QA/QC: Record coating thickness (DFT/thickness), curing time between layers, touch-up procedure after erection, and holiday testing where applicable.
- Benchmark coating systems (or equivalent): Jotun / AkzoNobel (International) / Asian Paints PPG / Berger industrial epoxy systems with UV resistant top coat.

3.4 Butterfly Valves PN16

- Type: PN16 wafer/lug butterfly valves suitable for condenser water service.
- Materials (minimum): CI/DI body; SS/DI disc with corrosion resistant coating; EPDM/NBR seat; SS shaft.
- Operation: Lever up to 150 mm; gear operator for 200 mm and above; lockable with position indicator.
- Testing: Manufacturer hydrostatic and seat leakage test certificates; site leak test after installation.
- Benchmark makes (or equivalent): L&T Valves / Audco / Bray / Intervale / Advance or equivalent.

3.5 Manual Balancing Valves / Circuit Setters

- Provide calibrated manual balancing valves (circuit setters) PN16 with metering/test ports, readable setting scale, memory stop and lockable setting.
- Commissioning: Provide balancing sheet with recorded flow and final settings to achieve required flow split between cells.
- Benchmark makes (or equivalent): Danfoss / IMI TA / Honeywell / Advance.

3.6 Local Temperature Gauges

- Provide local dial/bimetal temperature gauges, minimum 100 mm dial, with SS thermowell and isolation arrangement.
- Range 0 to 60C; accuracy +/-1% full scale (or better). Outdoor corrosion resistant case.
- Benchmark makes (or equivalent): WIKA / H Guru / Winters.

3.7 Local Pressure Gauges

- Provide local bourdon pressure gauges, minimum 100 mm dial, with isolation cock and snubber; accuracy class 1.6 (or better). Range suitable for condenser water system.
- Benchmark makes (or equivalent): WIKA / Ashcroft / H Guru.

3.8 Aspirated Wet Bulb Sensor Assembly with Output

- Provide outdoor air temperature and relative humidity sensor mounted inside a fan-aspirated radiation shield to reduce solar/radiation error; outdoor rated mounting bracket.
- Provide transmitter/output to VFD panel (4-20 mA or RS-485 as offered) with complete cabling, conduits, glands and terminations.
- Wet bulb value shall be computed in panel logic from temperature and RH (or direct WBT output may be used if sensor supports).
- Benchmark makes (or equivalent): Vaisala / Rotronic / Honeywell sensors with aspirated shield equivalent.

3.9 Make-up Water Meter with Pulse Output

- Provide 50 mm make-up water meter with totalizer and pulse output suitable for monitoring integration. Include mounting hardware, straight lengths, isolation valves and strainer if required by OEM.
- Commissioning: verify totalizer and pulse output; provide pulse constant and wiring diagram.
- Benchmark makes (or equivalent): Zenner / Itron / Kranti / Sensus (or equivalent) with pulse module.

3.10 Structural Steel Supports / Base Frame

- Material: Structural steel shall conform to IS 2062; provide MTCs.
- Fabrication: Provide base plates, stiffeners, gussets, load distribution members; welding and fabrication to good engineering practice; trial assembly where feasible.
- Installation: Anchoring/grouting as per approved structural design; leveling and alignment checks; provide vibration isolation elements where required and necessary.

- Corrosion protection: As per Section 3.3; submit coating thickness/QA records.

3.11 Electrical Panel(s) - VFD + DOL Bypass + SPD + Metering + BMS+ Cabling

- Provide complete cooling tower fan control panel system for two cell fans with VFD mode and BYPASS (DOL) mode per feeder. DOL bypass is for emergency operation.
- Compliance: LV assembly to comply with IEC 61439 series; enclosure IP rating as per IEC 60529; submit CPRI-tested or NABL-accredited lab short-circuit/type test evidence for equivalent panel design.
- Operating modes: OFF - VFD - BYPASS selector per feeder; electrical and mechanical interlocks to prevent simultaneous closure; changeover only when motor is stopped.
- Indications: R-Y-B healthy lamps; RUN/OFF/TRIP; VFD MODE ON and BYPASS MODE ON per feeder.
- Metering: Provide one multifunction energy meter per feeder (2 nos) measuring V, I, kW, kWh, PF, Hz with Modbus output and CTs as required.
- SPD and earthing: Provide Type-2 SPD at panel incomer as per IEC 61643-11 with visual status indication; complete earthing and bonding; submit test records.
- Controls: Fan speed control based on WBT input with programmable setpoints, min/max speed limits, ramps; lead/lag alternation logic based on run hours. Control cabling up to the VFD panel in trays/conduits with proper glands, lugs etc.
- BMS integration (minimum): Modbus RTU register map to be provided. Minimum points per feeder: Start/Stop (Run Enable) command, Run status, Trip/Fault status, Mode status (VFD/BYPASS), Speed feedback (%Hz), kW and kWh. Common: incomer status, WBT value.
- Local panel AUTO logic shall have priority for speed control. BMS Start/Stop shall act as Run-Permit only. Local Emergency Stop / Local isolator shall override all remote commands.
- **Auxiliary power distribution (mandatory):** Provide 230V AC auxiliary supply bus inside the VFD panel (via control transformer 415/230V or auxiliary MCB feed as per design). Provide a separate MCB for instrument/aux supply (WBT sensor, gauge illumination if any, etc.). Provide terminal blocks for power + command wiring. Provide clear wiring diagram + ferruling and labelled terminals
- Supply & provide IP65 emergency stop pushbutton station near the cooling tower for each fan/cell, wired to the VFD panel for immediate stop, near each fan motor for safe maintenance isolation. Necessary power/control wiring, conduits/trays, glands, lugs, terminations, ferruling, and testing are included.
- Reference VFD makes/models (or equivalent): Siemens SINAMICS G120X/G120XA; ABB ACH580; Schneider Altivar Process; Danfoss VLT HVAC Drive. Energy meters: Schneider / L&T / Secure / Socomec. SPD: DEHN / Schneider / ABB / Phoenix / CITEL.

3.12 Cables and Cabling

- Cables shall be copper conductor, XLPE insulated, armoured, with suitable glands/lugs; FRLS where applicable.
- Installation: cable trays/conduits/supports, segregation of power and control, proper bending radius, ferruling and tagging.
- Testing: insulation resistance (megger), continuity, functional checks and documentation.

3.13 Civil/Foundation and Waterproofing Works

- RCC works: As per IS 456; minimum grade M30. Provide non-shrink grout for base plates/anchors; ensure proper drainage slope and anti-slip finish.
- Waterproofing: Provide multilayer waterproofing membrane/treatment for affected terrace areas and reinstate disturbed waterproofing. Submit product datasheets, method statement and warranty.
- Drainage: Provide controlled routing for overflow/drain/blowdown to approved drain point; avoid ponding.
- Structural assessment and certification for terrace suitability is mandatory prior to installation.

3.14 Dismantling/Disposal

- Safe isolation/LOTO, dismantling and removal of existing cooling towers and associated connections as required; transport away from site; segregation of salvage vs scrap as directed by INCOIS; site restoration and debris clearance from the site.
- Contractor shall provide lifting plan, barricading, PPE, housekeeping and protection of existing services.

3.15 Automatic Air Vents DN25

- Automatic air release valves DN25 (1 inch), PN16, brass body with SS internals, float mechanism, anti-water hammer design, with isolation valve for maintenance without draining.

3.16 Commissioning, Documentation and Training

- Commissioning shall include: hydrotest, flushing/cleaning, balancing of two cells (recorded), VFD and bypass mode tests, interlocks and indications verification, WBT input validation, energy meter verification, Modbus communication check.
- Submit handover dossier: as-built drawings (piping and electrical), SLD/wiring diagrams, test reports, coating QA records, MTCs, O&M manuals, warranty certificates, and training completion record.

4. ELIGIBILITY CRITERIA

- a) The Bidders must be a Company registered under Indian Company Act 1956/Companies Act, 2013 or firms registered under any applicable Indian statute (Partnership Act, LLP Act etc).. Registration certificate to be submitted. Proofs for Registration of company, PAN and GST certificates to be submitted.
- b) Bidder shall provide a single point of contact (SPOC) and escalation matrix (name/phone/email) for coordination during execution and warranty period.
- c) The bidder should provide profile of their company including its infrastructure, availability of technical manpower and tools/test instruments required for piping fabrication/erection, hydro testing, electrical panel testing, and commissioning.
- d) Product catalogues / data sheets of the items offered. Make and model for the line items to be submitted.
- e) The bidder should have an average annual financial turnover of Rs. 16.00 lakhs or more during the last three years ending March 31, 2025. Proof of turnover and Proof of annual profit certificate issued by the chartered accountant to be submitted.
- f) Bidders should have past experience in similar nature of work in last five years ending previous day of last date of submission of the online Bid. Out of which one work of value Rs.25.60 lakhs or two works of value Rs. 16.00 lakhs or three works of value Rs. 12.80 lakhs. Client certificates / Work Completion Certificate / Experience certificate along with the P.O no. as a reference to be enclosed in this regard.
Similar Nature of Work means: Any DSITC/SITC work involving cooling tower(s) and/or water-cooled HVAC plant condenser-water system, including at least **TWO** of the following components, with the bidder having been responsible for Supply, installation, testing & commissioning of:
 - Cooling tower supply/installation/replacement of capacity not less than 50TR; and/or
 - Condenser water piping (MS) (minimum 80mm NB or above) with valves/balancing; and/or
 - Fan electrical works such as VFD/LV control panel or motor starter panel;
(Works executed in Government/PSU/Autonomous bodies/Universities/large industrial/commercial facilities are acceptable.). All cited works shall have been completed and accepted by the client. Works-in-progress shall not be considered
- g) Bidder should provide list of clients and their contact details and the installation/commissioning reports.
- h) Bidders must submit 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. Bids without technical compliance and data sheets/catalogues will not be considered.
- i) Self-declaration that bidder is not blacklisted/debarred by any Central/State Govt department/PSU/Autonomous body as on the date of bid submission
- j) Earnest Money Deposit (EMD): As per clause 06 of the General Terms and Conditions under section 07.
- k) Escalation matrix with full contact details, for the resolution of reported issues during contract period.
- l) **Start ups:** In order to promote make in India and startups, the prior turnover for all startups shall be relaxed partially subject to their meeting of quality, technical specifications and tender conditions as per tender. The bidder who intends to participate as "start up" company should enclose the certificate towards startup enterprise registration/recognition issued by Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry and the certificate should be certified by the Chartered Accountant or should be registered with GeM as startup. Applicable certificate should be enclosed.

- m) 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 06 under section 07 of General terms and conditions) will be summarily rejected and no further communication in this regard will be entertained.

5. **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 Technical Compliance Statement along with legible documentary proof, without which the offer will not be considered further.
- Part/conditional/incomplete quotations will not be accepted.

5.01 Table 1 - Technical Compliance Statement

a) General :

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.	Single Point of Contact : Name E-Mail Ph No.			
7.	The bidder must be a Company registered under Indian Company Act 1956 / Companies Act, 2013 or a registered firm under any applicable Indian statute. (Proofs for Registration, PAN and GST certificates to be submitted).			
8.	Bidder shall provide a single point of contact (SPOC) and escalation matrix (name/phone/email) for coordination during execution and warranty period			
9.	Product catalogues / data sheets of the items offered. Make and model for the line items to be submitted.			
10.	Bidder should provide list of clients and their contact details and the installation/commissioning reports			
11.	The Bidder should have an average annual financial turnover of Rs. 16.00 lakhs or more during the last three years ending March 31, 2025. Proof of turnover and Proof of annual profit certificate issued by the chartered accountant to be submitted.			
	Financial Details of Details Details of			

S No	Description					Compliance status Yes / No	Page number against the Proof attached.	Remarks/ Deviations, if any										
	year	Turnover	of Profit	Net worth														
	2024-25																	
	2023-24																	
	2022-23																	
12.	<p>Bidders should have past experience in similar nature of work in last five years ending previous day of last date of submission of the online Bid. Out of which one work of value Rs.25.60 lakhs or two works of value Rs. 16.00 lakhs or three works of value Rs. 12.80 lakhs. Client certificates / Work Completion Certificate / Experience certificate along with the P.O no. as a reference to be enclosed in this regard.</p> <p>Similar Nature of Work means: Any DSITC/SITC work involving cooling tower(s) and/or water-cooled HVAC plant condenser-water system, including at least TWO of the following components of testing & commissioning of:</p> <p>a) Cooling tower supply/installation/replacement; and/or</p> <p>b) Condenser water piping (MS) with valves/balancing; and/or</p> <p>Fan electrical works such as VFD/control panel or motor starter;</p> <p>(Works executed in Government/PSU/Autonomous bodies/Universities/large industrial/commercial facilities are acceptable.)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sl.No.</th> <th>Contract Order details</th> <th>Scope of work</th> <th>Period of contract</th> <th>Contract Value</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					Sl.No.	Contract Order details	Scope of work	Period of contract	Contract Value								
Sl.No.	Contract Order details	Scope of work	Period of contract	Contract Value														
13.	<p>Bidder must submit Quotations with technical compliance statement for all the specifications along with the detailed data sheets/ catalogues. Relevant remarks can be provided in the compliance statement if required. Quotations without technical compliance and data sheets/catalogues will not be considered.</p>																	
14.	<p>Earnest Money Deposit (EMD) : As per clause 6 of the General Terms and Conditions under section 07.</p>																	
15.	<p>Escalation matrix with full contact details, for the resolution of reported issues during contract period.</p>																	
16.	<p>Start ups: In order to promote make in India and startups, the prior turnover shall be relaxed partially subject to their meeting of quality, technical specifications. 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</p>																	

b) **Technical** : Instructions: Bidder shall fill the 'Compliance' columns and mark 'Complies / Deviates / NA'. For each row, upload supporting documents (datasheets/certificates/drawings/test reports). Unfilled/partially filled compliance matrix may be treated as non-responsive.

SI No	Tender Minimum Requirement	Compliance (Complies/Deviates/NA) with Make and Model	Supporting Documents to Upload
1	Cooling tower shall be CTI Thermal Certified under CTI STD-201; bidder to submit CTI listing/validation evidence for offered model line.		CTI certificate/validation no.; CTI directory evidence; OEM datasheet
2	Offered tower shall meet duty: Hot 35°C, Cold 30°C, WBT 27.2°C, Flow 960 USGPM, Heat rejection \geq 10,90,080 kcal/hr (selection sheet).		Tower selection sheet; performance curve; CTI evidence
3	Twin-cell induced draft counterflow FRP tower with FRP casing & FRP basin; UV stabilized resin/gelcoat; basin drain, overflow, make-up connection & access.		GA drawing; material spec; weights (dry/operating)
4	Drift eliminators: max drift loss \leq 0.005% of circulating flow (or better).		Drift eliminator datasheet
5	Fill: virgin PVC film fill, low fouling; modular/replaceable; thickness 0.2-0.3 mm (as per BoQ) or better.		Fill datasheet
6	Fans: axial fan per cell, guarded, dynamically balanced; bird screen; access ladders/platforms/handrails/anti-slip.		Fan datasheet; GA; safety/access details
7	Motors: IE3, TEFC, IP55 minimum, inverter duty/VFD-duty insulation; suitable for outdoor operation.		Motor datasheet; IP rating/insulation class
8	Warranty & training: minimum 12-month comprehensive warranty; provide O&M manuals and training to INCOIS staff.		Warranty letter;
9	MS Class-C condenser water piping and fittings as per BoQ sizes/lengths; provide MTCs for pipes/fittings; proper supports/anchors/guides; vents/drains.		
10	Coating: FRP/epoxy/FRP paint coating min 3 mm total thickness (3 layers) with UV resistant top coat; surface preparation and curing; DFT records.		
11	Hydrostatic test at 1.5 \times working pressure + operational leak test + flushing/cleaning; submit test reports.		
13	Butterfly valves PN16: CI/DI body, SS/DI disc, EPDM/NBR seat; lever up to 150 mm, gear from 200 mm; lockable; test certificates.		Valve datasheets;
14	Manual balancing valves/circuit setters (200 mm, 2 Nos): calibrated, PN16, test ports, memory stop & lockable; submit balancing/setting sheet.		Datasheet; commissioning/balancing sheet if available.
15	Local temperature gauges (4 Nos): min 100 mm dial, thermowell, range 0-60°C, IP65; isolation arrangement for service.		Datasheet; calibration/accuracy cert
16	Local pressure gauges (4 Nos): min 100 mm dial, isolation cock + snubber, accuracy class 1.6 or better; outdoor rated.		Datasheet; calibration/accuracy cert

17	Aspirated WBT sensor assembly: outdoor temp+RH in fan aspirated radiation shield; output to VFD panel with complete cabling/termination.		Sensor datasheet; wiring; scaling sheet
18	Make up water meter 50 mm with pulse/NMS output; include straight lengths, isolation valves, commissioning pulse verification & pulse constant.		Meter datasheet; pulse constant; commissioning record
19	MS structural steel base frame/supports as per approved structural design; IS 2062 steel; shop drawings; alignment/levelling; coating QA records.		Shop drawings during execution; MTC; coating QA
19	Terrace structural assessment & certification: load calculations, anchoring/base frame recommendations, stability certificate prior to installation.		Structural report + certificate during execution
20	Civil foundation/housekeeping pads: RCC M30, non-shrink grout, waterproofing protection/restoration, drainage slope, anti-slip finish.		Civil method statement; waterproofing datasheets; photos during execution
21	Panel shall be IEC 61439 design-verified & routine tested; enclosure IP per IEC 60529; submit short-circuit/type-test certificate from CPRI/NABL lab (CPRI tested or equivalent).		Panel GA/SLD; test certificates during execution prior to installation.
22	Two independent feeders with VFD mode + DOL bypass mode; mechanical/electrical interlocks; changeover only at motor stop; key selector preferred.		SLD; control schematic; interlock description prior to supply & installation.
23	Door indications: R-Y-B healthy, RUN/OFF, TRIP/FAULT, VFD MODE ON, BYPASS MODE ON (per feeder); E-Stop; door interlock.		GA; nameplate/legend list prior to supply & installation.
24	Energy meters: 1 multifunction meter per feeder (2 Nos) with Modbus output; measures V/I/kW/kWh/PF/Hz.		Meter datasheet; Modbus map prior to supply & installation.
25	SPD: Type-2 SPD at incomer as per IEC 61643-11 with status indication; earthing/bonding for panel, VFDs, motors & tower; submit test records.		SPD datasheet; prior to supply & installation.
26	BMS integration: Modbus RTU over RS-485 (BACnet MS/TP acceptable). Minimum points: ON/OFF command, run, trip+code, mode (VFD/BYPASS), speed %, kW, kWh, WBT value, incomer status, valve open/close/Stop status/command and as listed in tender		
27	Cables: Cu XLPE armoured as per BoQ; trays/conduits/supports; glands/lugs; IR/continuity tests; tagging.		Cable make and schedule if possible
28	Automatic air vents DN25 (2 Nos): PN16, brass body with SS internals, isolation valve for service.		Datasheet

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.

Technical Bid Evaluation Methodology: Technical bids shall be evaluated on a Pass/Fail basis. Bids that meet all eligibility criteria specified in Section 4 and submit complete technical compliance documentation as required in Section 5 (Table 1 and Table 2) shall be declared Technically Qualified. Commercial bids shall be opened only for technically qualified bidders. Incomplete compliance documents, non-submission of required certificates, or non-compliance with mandatory specifications (CTI certification, turnover/experience criteria) shall render the bid Technically Non-Qualified.

Table-2: Compliance Statement - 2 (un-priced 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.

4.02 Table - 2- Price Bid format

S.No	Description	Unit	Qty	Please confirm whether prices are Quoted in commercial bid or not. (Yes / No) <u>Please do not mention/quote prices here.</u>
01	COOLING TOWER			
	Supply, erection, testing & commissioning of one (1) CTI Thermal Certified (CTI STD-201) twin-cell induced-draft counter-flow FRP cooling tower complete with: (a) FRP casing and FRP basin with UV-stabilized resin/gelcoat; (b) PVC film fill (low-fouling, modular/replaceable) and PVC drift eliminators (drift loss <= 0.005% of circulating flow); (c) FRP axial fans (one per cell) with fan guards; dynamically balanced; (d) Fan motors: IE3, TEFC, IP55 minimum, inverter-duty/VFD-duty insulation (PWM compatible), Class-F insulation; suitable for outdoor terrace installation; (e) MS Hot-Dip Galvanized or superior material Access ladder/platform/handrails, anti-slip surfaces, bird screen, basin drain/overflow, make-up connection and standard appurtenances. Inclusions: factory QA, packing and transport, shop drawings/GA, O&M manuals, commissioning, training of INCOIS personnel, and minimum 12-month comprehensive warranty from commissioning. CTI requirement (mandatory): Bidder shall submit CTI STD-201 validation number and evidence that the offered model line is listed in CTI directory. Designed duty conditions (as per BoQ): Hot 35°C / Cold 30°C / WBT 27.2°C / Flow 960 USGPM / Heat rejection >= 10,90,080 kcal/hr. The contractor shall arrange for cooling tower OEM authorized representative to be present during erection, installation & final commissioning. The representative shall sign the commissioning checklist and issue a commissioning certificate.	Nos	1	
02	PIPE & PIPE FITTINGS			
	Supply, fabrication, installation and testing of condenser water piping in Mild Steel (Black Steel) Class-C as per relevant codes, complete		-	

	with all fittings (bends/elbows/reducers), flanges, gaskets, fasteners, and MS fabricated supports/anchors/guides. Includes loading, transportation, unloading and shifting to site. Coating/Protection (external): Provide FRP overwrap/epoxy protection system to achieve minimum 3 mm total build-up in 3 layers (with curing time between coats), including thorough surface preparation (degreasing, removal of mill scale/rust) and UV-resistant top coat. Submit coating method statement and thickness/QA records. Testing: Hydrostatic pressure test at 1.5 times working pressure, leakage testing at operating pressure, flushing/cleaning and documentation of results. Provide MTCs for pipes/fittings and maintain proper alignment/levelling. Provide vents at high points and drains at low points. Flexible connectors/dismantling joints as per the site requirements.			
2(a)	300 mm dia MS Class-C piping for main header extension, including fittings/supports/coating/testing as above.	M	15	
2(b)	200 mm dia MS Class-C piping for cooling tower inlet & outlet branches, including embedded strainers (2 Nos) and flexible connectors (4 Nos) as stated above.	M	40	
2(c)	100 mm dia MS Class-C piping (equalizer line / as per layout), including supports/coating/testing as above.	M	10	
2(d)	150 mm dia MS Class-C piping, including supports/coating/testing as above.	M	5	
2(e)	80 mm dia piping including fittings/supports, reducers/spool pieces, straight lengths, installation accessories and supports etc are included;	M	10	
2(f)	50 mm dia piping for overflow/drain/blowdown routing to approved drain point with proper slope/supports and valves, fittings/supports, reducers/spool pieces, straight lengths, installation accessories and supports etc are included as required. Provide arrangement suitable for 50 mm make-up meter and NRV/check valve for makeup tank and other accessories required for tapping from the makeup water tank.	M	50	
3.00	SITC of PN16 butterfly valves suitable for condenser water service, wafer/lug type, CI/DI body, corrosion-resistant disc (SS/DI with suitable coating), EPDM/NBR seat, SS shaft; lever operated up to 150 mm and gear operated from 200 mm and above; lockable with position indication. Include matching flanges, gaskets, fasteners, proper supports and manufacturer test certificates. (No brand locking; any reputed make meeting specs is acceptable.)		-	
3.00(a)	Butterfly valve PN16 - 300 mm dia	Nos	2	
3.00(b)	Butterfly valve PN16 - 200 mm dia	Nos	4	
3.00(c)	Butterfly valve PN16 - 100 mm dia	Nos	2	
3.00(d)	Butterfly valve PN16 - 80 mm dia	Nos	1	

3.00(e)	Butterfly valve PN16 - 50 mm dia	Nos	3	
4.00	SITC of 200mm NB calibrated manual balancing valves / circuit setters (PN16), flanged type, with metering/test ports, readable setting scale, memory stop and lockable commissioning setting. Valves shall enable balancing and verification of cell flow split during commissioning; provide Kv/Cv data and submit balancing sheet (final settings and measurements). Manufacturer test certificate to be submitted. (Pressure independent/constant-flow function is NOT mandatory.)	Nos	2	
5	SITC of local dial/bimetal temperature gauges (minimum 100 mm dial) with SS thermo well and isolation arrangement at designated points; range 0-60°C; accuracy +/-1% FS or better; SS/corrosion resistant case; minimum IP65 for outdoor installation; complete with all mounting accessories, sealing and isolation valves.	Nos	4	
6	SITC of local pressure gauges (minimum 100 mm dial) for condenser water system, with isolation cock and snubber, outdoor suitable construction; accuracy class 1.6 or better; complete with mounting accessories and connection fittings., including isolation valves etc.	Nos	4	
7	SITC of wet-bulb temperature sensor assembly (aspirated, outdoor rated) comprising air temperature + RH sensing in a fan-aspirated radiation shield with transmitter/output and complete shielded sensor cabling up to the cooling tower VFD panel. This input shall be used for fan speed modulation as per control logic.	Set	1	
8	SITC of 50 mm dia make-up water meter with totalizer and pulse/BMS output suitable for monitoring; include straight lengths as required, isolation valves and installation accessories; commissioning shall include verification of totalizer and pulse output and submission of pulse constant/wiring details including laying of suitable shielded sensor cabling/wiring up to the VFD panel.	Set	1	
9	Supply and fabrication of MS structural steel support/base frame for cooling tower units, including cutting, hoisting, fixing in position, anchoring/grouting as per approved structural design and INCOIS approval, accurate alignment and levelling, vibration isolation elements where required, and ensuring proper load distribution. Corrosion protection: Apply FRP/epoxy coating minimum 3 mm total thickness (where practicable) with primer and UV-resistant top coat; submit DFT/thickness QA records. Submittals: shop drawings, steel MTCs, coating application and thickness test reports.	Kgs	3000	
10	SITC of Cooling Tower Fan Control Panel(s) complete with VFD + DOL bypass modes, SPD,	LS	1	

	<p>energy metering, earthing/bonding and BMS integration - for two cell fan motors. Configuration: Provide 2 Nos VFDs (one per fan/cell), IGBT PWM type, suitable for IE3 TEFC IP55 motors, with built-in motor protection and fault logging. Provide DOL bypass for each feeder for emergency operation, with mechanical & electrical interlocks to prevent simultaneous VFD and bypass operation; changeover only at motor stop. Input: 415 V +/-10%, 3-phase, 50 Hz. Panel construction & compliance: IEC 61439 compliant LV assembly; enclosure IP54 indoor / IP55 outdoor as per actual location (IEC 60529). Copper busbars, proper shrouding, ferruled wiring, cable alley, gland plate, nameplates/legends. Provide type test/short-circuit withstand certificate from CPRI or NABL-accredited lab (CPRI tested or equivalent). Protections/indications/metering: Incomer MCCB with adjustable thermal-magnetic trip; outgoing protection for each feeder; control MCBs; phase loss/sequence protection. Door indications: R-Y-B healthy; RUN/OFF; TRIP/FAULT; VFD MODE ON; BYPASS MODE ON (per feeder). Provide 1 multifunction energy meter per feeder (2 Nos) measuring V/l/kW/kWh/PF/Hz with Modbus output. Provide Emergency Stop, door interlock, and Local/Remote selector. SPD & earthing: Type-2 SPD at incomer as per IEC 61643-11. Complete earthing/bonding of panel, VFDs, motor frames, and cooling tower structure; submit earth continuity and earth resistance records. Control logic (WBT based): fan speed modulation based on wet-bulb input (Item 12); programmable setpoints, min/max speed limits, manual override; lead/lag alternation weekly/monthly. BMS integration (minimum): Modbus RTU over RS-485 (BACnet MS/TP acceptable). Minimum points: run, trip/fault + fault code, mode (VFD/BYPASS), speed %, kW and kWh, WBT value, incomer status, SPD status (if contact). Submit register map. Testing & documentation: SAT mandatory; submit SLD, wiring diagrams, panel GA, test reports, O&M manuals, parameter backup and training record. Works include necessary modification in the existing panels for tapping the power including changing of the MCCB rating and laying of suitable size power cable from the existing feeder to the VFD panel.</p> <p>Also supply and provide IP65 emergency stop pushbutton station near the cooling tower for each fan/cell, wired to the VFD panel for immediate stop.</p>			
11	Supply and laying of 4C x 16 sqmm XLPE armoured copper cable for providing input power supply from existing source panel to the Cooling Tower VFD Control Panel, including	M	25	

	cable trays/conduits/supports, glands, lugs, terminations, ferruling, tagging and testing (IR/continuity).			
12	Supply and laying of 4C x 6 sqmm copper FRLS armoured copper cable with all necessary supports/cable trays, glands, lugs, terminations, tagging and testing as per site requirements.	M	150	
13	Supply and laying of 3C x 1.5 sqmm Cu FRLS copper control cable for auxiliary control or control cabling with all necessary supports/cable trays, glands, lugs, terminations, tagging and testing as per site requirements.	M	200	
14	Supply and laying of 4C x 1 sqmm copper control cable for auxiliary control wiring within system with all necessary supports/cable trays, glands, lugs, terminations, tagging and testing as per site requirements.	M	100	
15	Complete dismantling and removal of existing cooling tower units including associated components and connections (as required), segregation of salvage as directed by INCOIS, debris clearance and restoration of site/terrace after removal activities. Contractor shall submit lifting/rigging method statement and maintain safe housekeeping. Under Buy Back	Lump sum	1	
16	SITC of automatic air vents DN25 (1 inch) for condenser water/HVAC applications, brass body with stainless steel internals, minimum PN16, float-operated mechanism, anti-water hammer design, threaded connection, and built-in isolation valve for servicing without drainage; complete with fittings and sealing.	Nos	2	
17	Engineered civil foundation/housekeeping works on terrace capable of supporting full operational load with minimum safety factor; RCC minimum 28-day compressive strength 30 MPa (M30), proper foundation depth and anchoring, non-shrink grouting, multi-layer waterproofing membrane/treatment and restoration, drainage slope, water-resistant concrete admixture, anti-slip treatment and making-good. Mandatory: Structural assessment and certification for terrace/slab suitability by qualified structural engineer, including load calculations, base frame/anchoring recommendations and stability certificate prior to installation.	LS	1	
18	Lump sum for all minor/ancillary items essential for satisfactory completion of the entire work but not explicitly listed elsewhere, including: system flushing/cleaning, hydraulic balancing procedure and reporting, performance checks, temporary supports/fasteners/sealants, touch-up coating/painting, debris clearance and complete documentation/hand-over/spares one set as listed.	LS	1	
19	transportation of dismantled materials away from INCOIS site	LS	1	

- Note:: The BoQ quantities are indicative/provisional. Payment shall be made strictly as per actual executed and accepted quantities measured at site.
- All measurements shall be jointly recorded by INCOIS engineer and the contractor in measurement book or joint measurement sheets before the work becomes inaccessible wherever applicable.

6. Non-conformance / failed acceptance tests / warranty default

- Non-conforming goods/works: INCOIS may reject and/or require replacement/rectification of any non-conforming item/work at no additional cost. No payment shall be made for rejected goods/works. Bidder shall remove rejected goods within the time stipulated by INCOIS at its own risk and cost.
- Re-testing / re-commissioning: If any acceptance test/commissioning test fails due to reasons attributable to the bidder, the bidder shall rectify the defect and repeat the tests at its own cost. Any third-party testing charges, if engaged due to repeated failures, may be recovered from the bidder.
- Warranty service failure: During warranty, bidder shall attend and rectify complaints within the response time specified in the tender/contract. In case of failure, INCOIS may get the same rectified through other agencies at bidder's risk and cost, recoverable from pending bills/performance security, without prejudice to other remedies.

7. General Terms and Conditions

Point No.	Details
1.	Bidders should submit online in the Government E Marketplace at http://gem.gov.in . Offers received by any other means such as hard copy, fax, e-mail etc. will not be considered
2.	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
3.	* Acceptance of the order: The Successful bidder shall formally accept the Purchase order Within 10 days from the date of issue of the PO/Order. If the acceptance communication is not received within 10 days, then PO would be deemed as accepted and binding to the successful bidder.
4.	Contract completion Period: The completion period for the entire DSITC work shall be Three (03) months from the date of issue of Work Order / Purchase Order (PO) on GeM ("Contract Completion Period"). The completion period shall include all activities such as structural assessment & certification, design/shop drawings, procurement, delivery, lifting/cranage, dismantling/removal of old towers, civil/foundation works, installation, piping/valves/instrumentation, electrical works including VFD panel & cabling, testing & commissioning, documentation and training. Time is the essence of the contract. Completion shall be strictly as per the Contract Completion Period and/or any milestone schedule approved by INCOIS. Requests for extension of time due to force majeure or client-caused delays shall be submitted by the contractor in writing within 07 days of the occurrence. INCOIS shall consider and respond within 14 days.
5.	Warranty/Period: 1 year warranty from the date of installation, commissioning, testing & acceptance of the systems. Warranty response time: Bidder shall acknowledge complaints within 24 hours of notification and shall attend site within 48 hours. Critical defects (affecting operations) shall be rectified within 72 hours. Other defects shall be rectified within 07 days. If rectification is not completed within specified time, INCOIS reserves the right to get the work done at the contractor's cost.
6.	Payment terms: <ul style="list-style-type: none"> • 90% of the contract value shall be paid payment within 30 days after completion of the entire work viz., Design, Delivery, Installation, Commissioning, testing, training, acceptance and

	<p>submission of Ink Signed Original Invoice, applicable Test Certificate, Pre-shipment inspection/Q.C. passed certificate, Installation Report ,warranty undertaking and dismantling/ removal of buyback material etc.</p> <ul style="list-style-type: none"> • 10% will be paid after successful completion of one year warranty period or against submission of bank guarantee from a nationalized/scheduled bank for the like amount valid for a period of 01 year 02 months. • Any variation in the quantities (Extra/substitute/Deviation items) shall be regulated as per the CPWD approved clauses/practices. However, the basic rule of "payment as per actual measurements" shall prevail. <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>
7.	<p>Earnest Money Deposit (EMD): Bid Security (BS) Rs.64,000/- (Rupees Sixty four thousand only) has to be submitted as per the following form/ options:</p> <ol style="list-style-type: none"> 1. Demand Draft 2. Insurance Security Bond 3. e-Bank Guarantee 4. Fixed Deposit in favor of Director, INCOIS payable at Hyderabad with validity for a period of 45 days beyond the tender validity period. 5. Bid Security declaration on the tendering firm's letter head duly signed and stamped by the authorized signatory as per Annexure 6. Online payment through NEFT/RTGS as per Bank details given below: Name of the Bank: SBI, HAL Campus Branch: HAL Campus Account Name: Director, INCOIS Account No.10442322840 IFSC Code: SBIN0001676 <p>The scanned copy of the same is to be uploaded to the GeM Portal while submitting the tender. Bank Guarantee should be sent by the issuing banker directly to the office of INCOIS, Hyderabad. The original DDs / Financial instruments if any should reach to INCOIS within 5 working days of Bid opening, failing which the bid may treated as incomplete & may lead to rejection of the bid by buyer without making any reference to the bidder.</p>
8.	<p>Advance Guarantee: Bidder should submit ABG for 10% payment valid for 14 months as per the following form/ options:</p> <ol style="list-style-type: none"> a) Demand Draft b) Insurance Security Bond c) e-Bank Guarantee d) Fixed Deposit Receipt in favor of Director, INCOIS payable at Hyderabad e) Online payment through NEFT/RTGS as per Bank details given below: Name of the Bank: SBI, HAL Campus Branch: HAL Campus Account Name: Director, INCOIS Account No.10442322840 IFSC Code: SBIN0001676 <p>The scanned copy of the same is to be uploaded to the GeM Portal while submitting the tender. Bank Guarantee should be sent by the issuing banker directly to the office of INCOIS, Hyderabad.</p> <p>The original DDs/ Financial instruments if any should reach to INCOIS within 5 working days of Bid opening, failing which the bid may treated as incomplete & may lead to</p>

	rejection of the bid by buyer without making any reference to the bidder.
9.	Bidders should fill in and submit the compliance statements along with bid. Offers received without the compliance statements will be summarily rejected. Any falsification/suppression of information could lead to disqualification. Any deviations technically or commercially should be clearly indicated in the technical bid offer only
10.	Proof for fulfilment of eligibility criteria should be submitted along with the tender. Tenders not in complete shape or not conforming to specifications or not confirming to terms and conditions are liable for rejection
11.	Offers received without Bid Security will be summarily rejected. In case of MSE / NSIC, a copy of valid registration certificate should be submitted along with the bid securing declaration form.
12.	Validity of Offers: Bid should have a validity period of 90 days from the bid closing date
13.	<p>Penalty Clause During Warranty Period : Successful bidder should make sure that the reported issues are to be dealt with immediately and should be resolved within 72hrs (3-Days) from the time of call reporting from INCOIS..</p> <p>If the successful bidder fails to resolve the reported issues within 72hrs, INCOIS will take up alternative measures for resolving the issues at risk and cost of the successful bidder. And this step of INCOIS should not have any implications on the already agreed support for the systems / peripherals provided.</p>
14.	Start ups: In order to promote make in India and startups, the prior turnover shall be relaxed partially subject to their meeting of quality, technical specifications. 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.	Please note that any falsification/suppression of information could lead to the disqualification.
16.	Bidders should fill and submit the technical compliance sheet along with supporting documents along with Part -I Techno -Commercial bid. Offers received without the compliance sheet will be summarily rejected.
17.	If any loss or damage is caused to INCOIS property by workmen deployed by the successful bidder, the cost of the same will be recovered from the successful bidder
18.	Proof for fulfilment 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
19.	<p>Liquidated Damages Clause: 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.</p> <ol style="list-style-type: none"> 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. To purchase elsewhere, after due notice to the Bidder Inc., on the account and at the risk of the defaulting supplier for the stores/services not supplied or others of a similar description without cancelling the work order in respect of the job not yet due for supply or 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. To extend the period of delivery with or without penalty shall not be more than agreed liquidated damages referred to in clause (a) above, To forfeit the security deposit full or in part at the discretion of Director, INCOIS.
20.	<p>Force Majeure Clause:</p> <p>If the execution of the contract / supply order is delayed beyond the period stipulated in the contract as a result of out-break of hostilities, declaration of an embargo's or blockage or fire flood,</p>

	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.
21.	If any bidder withdraws his tender after price bid is opened, with in the validity period or makes any modifications in the terms and conditions of tender, 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 apart from other administrative activities
22.	Defect Liability Period if any: Same as Warranty Period
23.	Before submitting the bids Bidders are advised to inspect the site of works and its environments and be well acquainted with actual working conditions, approach to site of work, surroundings of the Site of work and other prevailing conditions, position of materials and labour. The Tender(s) shall be well acquainted with the General and Special conditions of Contract and specifications and all other documents which form part of the Agreement. Any misunderstandings of the conditions/rules/ regulations/specifications shall not entitle the Bidders(s) contractor(s) for any sort of compensation
24.	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 i.e., fire, wind, rain, floods or through any hazards, pilferage, other natural calamities etc., the Contractor shall make good the damaged works and restore the same to the original condition without any additional cost.
25.	The Bids shall be uploaded only after being signed by a duly authorized officer of the firm (Single point of contact) which is bidding for the tendered requirement
26.	If any Bidders 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 securing declaration.
27.	Director, INCOIS reserves the right terminate the contract either whole or part of the contract with one month notice and bidder shall not have any claim whatsoever on this account.
28.	The acceptance of the tender will solely rest with the 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.
29.	In case of any unresolved dispute or differences arising at any time between this Institute and the firm holding the contract, these shall be resolved in terms of the Arbitration and Conciliation Act 1996 and held at Hyderabad, Telangana, India only. Further, this contract is subject to laws of India alone. The arbitration process shall commence within 30days of a dispute notice, and the decision of the Arbitrator(s) shall be final and binding on both the parties.

8. **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 March 13, 2026. Note: Firms may submit a consolidated query only once. e-mail: manyam@incois.gov.in. E-mail subject should be mentioned as "Queries on Design, Supply, Installation, Testing & Commissioning (DSITC) of One Dual-Cell Induced Draft FRP Cooling Tower

i) **Site Visit:** INCOIS has made every effort to bring out the requirements to facilitate the Firms to make their proposals. However, keeping in view that Firms may have clarifications on certain points in this tender before submitting their Proposal, a site visit at 14 00 hrs, will be held at INCOIS, Hyderabad on March 09, 2026.

1) Administrative Officer (Purchase)
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 6022
e-mail: manyam@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 Design, Supply, Installation, Testing & Commissioning (DSITC) of One Dual-Cell Induced Draft FRP Cooling Tower Including Dismantling, Buy-Back and Removal of Existing Cooling Towers with One-Year Comprehensive Warranty at INCOIS, Hyderabad.

Signature of the Bidders/ Authorised Signatory & date

Name

OFFICE SEAL,

Address

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

BANK GUARANTEE FORMAT FOR BID SECURITY:

Annexure-I

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

THE CONDITIONS of this obligation are:

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

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

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

(Signature of the Bank)

Name of the Bidder

Format of Bank Guarantee for Advance Payment

In consideration of the INDIAN NATIONAL CENTRE FOR OCEAN INFORMATION SERVICES., called as "INCOIS") having agreed to make advance payment to.....[hereinafter called the said Contractor/Supplier(s)], under Agreement/Contract/Order No.dated (Hereinafter called "the said Agreement the said Contract said Order"), made between..... andfor..... (Indicate the scope of supply), for the due fulfillment of the terms and conditions contained in the said Agreement/Contract/Order, on production of a bank Guarantee for.....(indicate the amount in Rs/ Foreign Currency) (.....only),

We,(hereinafter referred (indicate the name of the bank) to as "the Bank") at the request of[Contractor/supplier(s)] do hereby undertake to pay to INCOIS an amount not exceeding.....(indicate the amount in Rs/ Foreign Currency) against any loss or damage, costs, charges and expenses, claims caused tot suffered or would be caused tot suffered by HAL by reason of any breach by the said Contractor/supplier(s) of any of the terms or conditions contained in the said Agreement/Contract/Order.

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

3. We undertake to pay to INCOIS an amount not exceeding (indicate the amount in Rs/ Foreign Currency) so demanded notwithstanding any dispute or disputes raised by the contractor(s)/ supplier(s) in any suit or proceeding pending before any Court or Tribunal relating thereto, Our liability under this guarantee being absolute and unequivocal.

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

5. We, (indicate the name of bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of INCOIS in writing and agree that any change in the constitution of the said contactor(s)/Supplier(s) or Bank INCOIS not discharge the Bank of its liability under this deed.

6. The validity of Bank Guarantee INCOIS be up to.....(dd/mm/yy) and such date INCOIS be 60 days after the last delivery/Services against the contract. The Bank Guarantee INCOIS continue to be enforceable till all the dues of INCOIS under or by virtue of the said Agreement/Contract/Order have been fully paid and its claims satisfied or discharged or till INCOIS certifies that the terms and conditions of the said Agreement/Contract/Order have been fully and properly carried out by the said contractor/supplier(s) and accordingly discharges this guarantee.

7. The Bank Guarantee can be invoked by submitting the claim at..... (Place of respective INCOIS's Division) any Branch of the issuing Bank

8. Notwithstanding anything contained herein:

a. Our liability under this Bank Guarantees INCOIS not exceeds Rs..... (Rupees.. Only)

b) This Bank Guarantees INCOIS be valid up to(being the date of expiry of the Guarantee) and

c) The Beneficiary's right as well the Bank's liability under this Guarantees INCOIS stand extinguished unless a written claim or demand is made under this Guarantee on or before

[.....] ((being the date of expiry of claim period which in no case should be less than 1 year from the date of expiry of validity period of BG as per clause 8 (b) above).

9. This Bank Guarantees INCOIS be governed by and constitute in accordance with Indian Law and s INCOIS l be subject to exclusive Jurisdiction of Indian Courts.

10. Dated the day of..... for.....(indicate the name of the Bank).

BID-SECURING DECLARATION FORM

Bid No. INCOIS: PUR: 11/2025 date 02.03.2026 "Design, Supply, Installation, Testing & Commissioning (DSITC) of One Dual-Cell Induced Draft FRP Cooling Tower Including Dismantling, Buy-Back and Removal of Existing Cooling Towers with One-Year Comprehensive Warranty at INCOIS, Hyderabad."
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 two 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:

OFFICE SEAL,

Designation:

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)

Technical Specifications of Buyback Item:

SNo	Description	Specifications
1.	Item Description:	Cooling Towers
2.	Serial Numbers:	a) 03-2E0429A b) 03- 2E0429B c) 03 - 2E0429C
3.	Model:	CT Model 3861
4.	Brand:	PAHARPUR Make
5.	Year of manufacturing:	2003
6.	Purchased on:	2003
7.	Age:	22 years
8.	Quantity:	03 Nos
9.	Working Guidelines (/Functional/Non-Functional):	Non -Functional