

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

इंकोईस: क्रय: 82/2024
Ref. INCOIS: PUR: 82/2024

दिनांक: 24.07.2025
Date: 24.07.2025

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 SNo.	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
	इंकोईस, हैदराबाद में AV सविधाओं की स्थापना / वृद्धि 1 वर्ष की वारंटी और 4 वर्ष के CAMC के साथ Establishment / Augmentation of AV facilities at INCOIS with 01-year Warranty and 4 years CAMC	इंकोईस: क्रय: 82/2024 INCOIS: PUR: 82/2024	जीईएम/2025/बी/6491690 दिनांक: 24.07.2025 GEM/2025/B/6491690 dated 24.07.2025	03.09.2025 15:00:00

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 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).



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

बिड दस्तावेज़ / Bid Document

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	03-09-2025 15:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	03-09-2025 15:30:00
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	42
वस्तु श्रेणी /Item Category	TP Room 1 , Conference Room I 2 , Board Room 3 , Conf Room two 4 , Conf Room three 5 , e classroom 6 , HOD Cabins 7 , MISC ITEMS 8 , CAMC 8 , CAMC 9 , CAMC 10 , CAMC 11 , CAMC 12 , CAMC 13 , CAMC 14 , CAMC 15 , CAMC 16 , CAMC 17 , CAMC 18 , CAMC19 , CAMC 20 , CAMC 21 , CAMC 22 , CAMC 23 , CAMC 24 , CAMC 25 , CAMC 26 , CAMC 27 , CAMC 28 , CAMC 29 , CAMC 30 , CAMC 31 , CAMC 32 , CAMC 33 , CAMC 34 , CAMC 35 , CAMC 36 , CAMC 37 , CAMC 38 , CAMC 39 , CAMC 40 , CAMC 41
GeMARPTS में खोजी गई स्ट्रिंग्स / Searched Strings used in GeMARPTS	AV Facilities, Establishment of AV Facilities, Augumentation of AV Facilities
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	<p>Searched String: AV Facilities</p> <p>AV Cone For Artificial bull Vagina, Line Interactive UPS with AVR (V2), Aviation Signal Light Gun, Blood Collection Tube, Aviation Metal Shear, Fistula Needles Sets (V2), Avalanche Victim Detector (Defence), Purses and Handbags and Bags Rucksack 70 - 85 (Litre), Rod Avalanche (V2) as per IS 11616, Waist Belt Nylon with Buckle and Rings for Facilitating Slithering / Rapping (MHA)</p> <p>Searched String: Establishment of AV Facilities</p> <p>Modular Toilet, LCR Meter, AV Cone For Artificial bull Vagina</p> <p>Searched String: Augumentation of AV Facilities</p> <p>Hiring of AR/VR Services for Events</p>

बिड विवरण/Bid Details	
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> • Audio Video Cable • HDMI Input Video Capture Card • Audio Mixer (V2)
बीओक्यू शीर्षक /BOQ Title	Establishment and Augmentation of AV facilities at INCOIS with 01 year Warranty and 4 years CAMC
बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का) /Minimum Average Annual Turnover of the bidder (For 3 Years)	200 Lakh (s)
मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)/OEM Average Turnover (Last 3 Years)	100 Lakh (s)
उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष/Years of Past Experience Required for same/similar service	3 Year (s)
टर्नओवर के लिए एमएसई को छूट प्राप्त है / MSE Exemption for Turnover	Yes Complete
टर्नओवर के लिए स्टार्टअप को छूट प्राप्त है / Startup Exemption for Turnover	Yes Complete
विक्रेता से मांगे गए दस्तावेज़/Document required from seller	<p>Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Additional Doc 1 (Requested in ATC),Compliance of BoQ specification and supporting document</p> <p>*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</p>
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेज़ों 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 बढ़ाने के लिए आवश्यक न्यूनतम सहभागी विक्रेताओं 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
विगत प्रदर्शन /Past Performance	50 %
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	No
बिड का प्रकार/Type of Bid	Two Packet Bid
प्राथमिक उत्पाद श्रेणी/Primary product category	TP Room 1

बिड विवरण/Bid Details	
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	11 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
अनुमानित बिड मूल्य /Estimated Bid Value	40005000
मूल्यांकन पद्धति/Evaluation Method	Total value wise evaluation
वित्तीय दस्तावेज की आवश्यकता है / Financial Document Required	Yes
मध्यस्थता खंड/Arbitration Clause	No
सुलह खंड/Mediation Clause	No

ईएमडी विवरण/EMD Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईएमडी राशि/EMD Amount	800000

ईपीबीजी विवरण /ePBG Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईपीबीजी प्रतिशत (x)/ePBG Percentage(%)	5.00
ईपीबीजी की आवश्यक अवधि (माह) /Duration of ePBG required (Months).	62

(a). जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित कैटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने हैं। एमएसई कैटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।/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
Payable at Hyderabad, Indian National Centre for Ocean Information Services, , Ministry of Earth Sciences,
Pragathi Nagar, Hyderabad-90
(Director, Incois)

विभाजन/Splitting

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

एमआईआई खरीद वरीयता/MII Purchase Preference

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

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
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1. If the bidder is a Micro or Small Enterprise (MSE) as per latest orders issued by Ministry of MSME, the bidder shall be exempted 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 exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking exemption from Turnover, shall upload the supporting documents to prove his eligibility for exemption.
 2. If the bidder is a DPIIT registered Startup, the bidder shall be exempted 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 exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking exemption from Turnover shall upload the supporting documents to prove his eligibility for exemption.
 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. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated 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 OEM 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.
 6. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.
- OM No.1 4 2021 PPD dated 18.05.2023** for compliance of Concurrent application of Public Procurement Policy

for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

7. 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.

8. 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.

9. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 50% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

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

PRICE BID - [1753349550.xlsx](#)

Pre Bid Detail(s)

मूल्य मित्ता खंड दस्तावेज़/Pre-Bid Date and Time	प्री-बिड स्थान/Pre-Bid Venue
07-08-2025 11:00:00	AT INCOIS, HYDERABAD

TP Room 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.

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	105

Conference Room I 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

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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	105

Board Room 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.

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

क्र.सं./S.No.	परिषी/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	1	105

Conf Room Two 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.

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

क्र.सं./S.No.	परिषी/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
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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	105

Conf Room Three 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)

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E Classroom 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)

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HOD Cabins 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)

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MISC ITEMS 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)

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CAMC 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)

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CAMC 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)

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CAMC 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)

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CAMC 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)

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CAMC 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)

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CAMC 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)

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CAMC 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 विशेषताएँ /Technical Specifications

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BOQ Detail Document	View File

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CAMC 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 विशेषताएँ /Technical Specifications

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CAMC 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)

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CAMC 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)

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CAMC 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)

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CAMC19

(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)

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CAMC 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)

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CAMC 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)

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CAMC 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)

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

क्र.सं./S.No.	प्रेषित/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	1	365

CAMC 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.

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

क्र.सं./S.No.	प्रेषित/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्र /Quantity	डिलीवरी के दिन/Delivery Days
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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	1	365

CAMC 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.

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	1	365

CAMC 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	365

CAMC 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	365

CAMC 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.

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 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	1	365

CAMC 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.No.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
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क्र.सं./S.No.	प्रेषित/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	365

CAMC 29

(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.

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

क्र.सं./S.No.	प्रेषित/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	365

CAMC 30

(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

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

क्र.सं./S.N o.	प्रेषित/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	1	365

CAMC 31

(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

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

क्र.सं./S.N o.	प्रेषित/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	1	365

CAMC 32

(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.

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

क्र.सं./S.No.	प्रेषित/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	365

CAMC 33

(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.

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

क्र.सं./S.No.	प्रेषित/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
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क्र.सं./S.N o.	प्रेषित/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	365

CAMC 34

(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 विवरणियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

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

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

क्र.सं./S.N o.	प्रेषित/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	365

CAMC 35

(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 विवरणियाँ /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	1	365

CAMC 36

(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	1	365

CAMC 37

(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 विनिर्देश / 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	1	365

CAMC 38

(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 विनिर्देश / 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
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क्र.सं./S.No.	प्रेषित/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	365

CAMC 39

(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.

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

क्र.सं./S.No.	प्रेषित/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	365

CAMC 40

(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	105

CAMC 41

(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	105

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

1. **Generic**

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

2. **Service & Support**

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

3. **Service & Support**

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

4. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

Establishment / Augmentation of AV facilities at INCOIS with 01-year Warranty and 4 years CAMC

Payment terms:

90% of payment for **SI Nos. 1 to 8 (Table 2 - Unpriced bid)** (pertaining to supply, installation with a warranty of one year) will be released upon successful supply, acceptance, installation & commissioning of materials defined under the scope of work.

10% of payment will be released after successful completion of 1 year warranty or on submission of Advance Bank Guarantee (ABG) for the said amount and period. **For SI Nos. 9 to 16 (Table 2 - Unpriced bid)** - The CAMC value will be released in quarterly upon submission of invoice and satisfactory service reports duly signed by the vendor.

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

The Tenderer should have a service / operational support centre in Hyderabad and proof of the same should be submitted

5. **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 are mandated to ensure compliance with all the applicable laws / acts / rules including but not limited to all Labour Laws 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. Any non-compliance will be treated as breach of contract and Buyer may take suitable actions as per GeM Contract.

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 कार्यवाई 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:82/2024

24.07.2025

Request for Proposal for "Establishment / Augmentation of AV facilities at INCOIS with 01-year Warranty and 4 years CAMC"

Dear Sirs,

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

1.	Name of the work	Establishment / Augmentation of AV facilities at INCOIS with 01-year Warranty and 4 years CAMC
2.	BID Ref. No.	INCOIS: PUR:82/2024
3.	Earnest Money Deposit (EMD)	Rs.8,00,000/- (Rupees Eight lakhs only) as per clause 6 of the General Terms and Conditions under Section 10
4.	Site Visit Schedule	1000-1600 Hrs .of August 01, 2025
5.	Due date for seeking clarifications	On or before 1500 Hrs .of August 4, 2025
6.	Pre-Bid Meeting (Only for bidders who submit clarifications before the due date)	1100 Hrs. of August 7, 2025
7.	Issue of Corrigendum, if any	On or before 1500 Hrs. of August 13, 2025
8.	Due date for bid submission	On or before 1500 Hrs. of September 3, 2025
9.	Bid opening date	On or before 1530 Hrs. of September 3, 2025
10.	Completion period	Within 12-15 weeks from the date of acceptance of the Order.
11.	Acceptance of the Order	Within 15 days from the date of receipt of the Order

Being a GeM procurement, the bid has to be submitted online through the GeM portal i.e., <http://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)

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

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

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1. Introduction

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

2. Scope of Work:

Establishment/ Augmentation of the AV facilities in various conference rooms.

I) Establishment of the AV facilities at Tele Presence room, Main building:

The existing TP room at main building which is currently not in use and proposing with the latest 15 pax seating capacity conference room for high quality local meetings as well as high quality video meeting capabilities at INCOIS, Hyderabad which will be all inclusive package of fully integrated solution including hardware, software, audio visual, conferencing, control systems etc. along with Professional Wall and Table Displays, Professional Display Manager, Professional Video Codecs, Professional Video Conferencing Cameras, Integrated Conferencing Audio System with Inbuilt Automatic Speaker Tracking Capability, Central Control, Switching and Automation System, Cable Management Solution, Cable & Connectors and professional studio video conference lighting that remove the under eye shadows with low level work and required electrical and AV cable & connectors. Related details are mentioned in technical specifications.

II) Establishment of the AV facilities at Conference Room 1* floor

Set up of Conference Rooms at First floor Main building, which consists of local meeting/ conferences/ seminar / training and video meetings, at INCOIS, which will be all inclusive package of fully integrated solution including hardware, software, audio visuals, conferencing, control systems, along with Professional Wall and Table Displays, Professional Video Codecs, Professional Video Conferencing Cameras, Professional Conferencing Audio System with, Local speech reinforcement audio system with sound lift audio system, Central Control, Switching and Automation System, Professional Wireless Presentation System, Professional Wireless Presentation System, Professional Display Managers, Professional Learning and Collaboration Platform Cable Management Solution and Cable & Connectors. Related details are mentioned in technical specifications.

III) Augmentation of AV facilities at Board Room, Main building

Upgradation of existing 30 seater Board Room at INCOIS, Main building, which will be all inclusive package of fully integrated Audio Solution including hardware, software, etc. wherever required. This upgradation will be done using the maximum possible existing inventory, along with the new equipment's to meet the desired upgradation with added functionalities. On account of recent changes in technology and non-working of existing set-up upgradation of the complete system is recommended to make room ready for conducting high quality local meeting as well as high quality video meetings.

IV) Establishment of the Conference Rooms at ITCOO building

Set up of Conference Rooms at ITCO building, INCOIS, Hyderabad, which consists of local meeting/ conferences/ seminar / training and video meetings, at INCOIS, which will be all inclusive package of fully integrated solution including hardware, software, audio visuals, conferencing, control systems, along with Professional Wall and Table Displays, Professional Video Codecs, Professional Video Conferencing Cameras, Professional Conferencing Audio System with, Local speech reinforcement audio system with sound lift audio system, Central Control, Switching and Automation System, Professional Wireless Presentation System, Professional Wireless Presentation System, Professional Display Managers, Professional Learning and Collaboration Platform Cable Management Solution and Cable & Connectors. Related details are mentioned in technical specifications.

V) Installation of Content monitors in 72-seater E-class room of ITCOO building

In the year 2023, the 72-seater E-Classroom was set-up and is being used extensively. To facilitate comfortable view of the content displayed by the trainer to the back row participants, and to enhance the viewing experience it is proposed to install content monitors on the tabletops from third row onwards. **NOTE:** The short listed vendor should co-ordinate with the existing partner of E- Class room for seamless integration of the content monitors without disturbing the existing functionality and ambience of the e-class room.

VI) Supply, Installation & commissioning of 55" display with HDMI connectivity (11 nos.)

To facilitate the 55" display with HDMI connectivity to Director's cabin, GD's & DH's rooms for better large scale viewing experience in division activities and to participate in day-to-day meetings called by Director, INCOIS.

Experience is the essence of this contract as the local meeting and video meeting experience of the end users is very important. Evaluation would be done on various experience specifications such as quality of audio in local sessions, quality of audio in video sessions, quality of video meeting participants over video ease of uses etc. To achieve such user, experience the work is to be carried out on a turn-key basis and experience specifications are clearly spelled out.

Note:

- *Manufacturers Authorization Form (MAF) with specific reference to this tender to be attached.*
- *Data sheet of the product offered to be attached.*
- *Offers received without MAF and Data sheets will not be considered for further evaluation.*
- *No further communication in this regard will be entertained.*

3. Deliverables:

I)TP Room Bill of materials

S.No	Description	Quantity
1	75" Professional 4K UHD LED Display with High Brightness along with Wall Mount Kit	2 Nos
2	15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment with control buttons	1
3	Teams & IP dialing based Video Codec	1
4	Mini PC including i7, 12GB RAM, 500 GB SSD/NVMe, windows 11, antivirus along with wireless keyboard and mouse.	1
5	PTZ Video Camera- 20X Optical Zoom	1

6	Digital Signal Processor with Dante, AEC, VoIP, Telco & USB Audio	1
7	Ceiling Tile Microphone array with 360 degree coverage	1
8	In-Ceiling Speakers	4
9	Modular Type 8x8 4K HDMI Seamless Matrix Switcher with future upgradation up to 16x16 HDMI in and out ports	1
10	Touch Panel for Room AV control	1
11	Control system with serial, relays, I/O, IR, and Ethernet control ports	1
12	8 Channel Relay Controller	1
13	Multi-Stage Protection Power Conditioner	1
14	Wireless Access Point	1
15	16 Port PoE+ Smart Managed Ethernet Switch	1
16	USB Switcher	1
17	1x2 HDMI Distribution Amplifier	1
18	1x4 HDMI Distribution Amplifier	1
19	AV Equipment Rack	1
20	Cable Management System	5
21	Professional Studio Video Conference Lightings	10
22	Professional articulating display Manager for Managing of 2 No's of 75" Displays, Cameras and stereo speakers	1
23	Required Cables, Connectors & Accessories	1 set
24	Table re-conditioning, repairing and filling of existing cut-outs, re-veneering of top with PVC Veneer.	1set
25	Acoustic Paneling to be installed on inner side of room elevations	1 No.
26	Carpeting as per the room dimensions	1 No.

II) Conference Room-1, First floor; Bill of materials

S.No	Description	Quantity
1	for 65" Professional 4K UHD LED Display with High Brightness along with Wall Mount Kit	2 Nos
2	15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment with control buttons	1
3	Teams & IP dialing based Video Codec	1
4	Mini PC including i7, 12GB RAM, 500 GB SSD/NVMe, windows 11, antivirus along with wireless keyboard and mouse.	1
5	Teams & IP dialing-based Video Codec	1
6	Digital Signal Processor with Dante, AEC, VoIP, Telco & USB Audio	1
7	Ceiling Tile Microphone array with 360 degree coverage	1
8	In-Ceiling Speakers	4
9	Modular Type 8x8 4K HDMI Seamless Matrix Switcher with future upgradation up to 16x16 HDMI in and out ports	1
10	Touch Panel for Room AV control	1
11	Control system with serial, relays, I/O, IR, and Ethernet control ports	1
12	8 Channel Relay Controller	1
13	8 Channel Digital I/O Module	1
14	Multi-Stage Protection Power Conditioner	1
15	Wireless Access Point	1
16	16 Port PoE+ Smart Managed Ethernet Switch	1
17	USB Switcher	1
18	7 port hub	1
19	1x2 HDMI Distribution Amplifier	1
20	1x4 HDMI Distribution Amplifier	1
21	AV Equipment Rack	1
22	Cable Management System	3
23	Professional Studio Video Conference Lightings	10
24	Professional articulating display Manager for Managing of 2 No's of 65"	1

	Displays, Cameras and stereo speakers	
25	Table re-conditioning, repairing and filling of existing cut-outs, re-veneering of top with PVC Veneer.	1set
26	Required Cables, Connectors & Accessories	1 set
27	Carpeting as per the room dimensions	1 No.

III) Board Room Bill of materials

S.No	Description	Quantity
1	15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment with control buttons	7
2	Teams & IP dialing based Video Codec	2
3	Mini PC including i7, 12GB RAM, 500 GB SSD/NVMe, windows 11, antivirus along with wireless keyboard and mouse.	1
4	PTZ Video Camera- 20X Optical Zoom	1
5	Digital Signal Processor with Dante, AEC, VoIP, Telco & USB Audio	1
6	Ceiling Tile Microphone array with 360 degree coverage	3
7	In-Ceiling Speakers	8
8	Touch Panel for Room AV control	1
9	Control system with serial, relays, I/O, IR, and Ethernet control ports	1
10	8 Channel Relay Controller	1
11	8 Channel Digital I/O Module	1
12	Multi-Stage Protection Power Conditioner	1
13	Wireless Access Point	1
14	16 Port PoE+ Smart Managed Ethernet Switch	1
15	USB Switcher	1
16	1x2 HDMI Distribution Amplifier	1
17	1x4 HDMI Distribution Amplifier	1
18	Cable Management System	10
19	Professional articulating display Manager for Managing of 1 No's of 65" Displays, Cameras and stereo speakers	2
20	Professional articulating display Manager for Managing of 2 No's of 65" Displays, Cameras and stereo speakers	1
21	Required Cables, Connectors & Accessories	1 set

IV) Conference Room-2, ITCOO; Bill of materials

S.No	Description	Quantity
1	75" Professional 4K UHD LED Display with High Brightness along with Wall Mount Kit	2 Nos
2	15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment with control buttons	7
3	Teams & IP dialing based Video Codec	1
4	Mini PC including i7, 12GB RAM, 500 GB SSD/NVMe, windows 11, antivirus along with wireless keyboard and mouse.	1
5	PTZ Video Camera- 20X Optical Zoom	1
6	Digital Signal Processor with Dante, AEC, VoIP, Telco & USB Audio	1
7	Ceiling Tile Microphone array with 360 degree coverage	1
8	In-Ceiling Speakers	4
9	Modular Type 8x8 4K HDMI Seamless Matrix Switcher with future upgradation up to 16x16 HDMI in and out ports	1
10	Touch Panel for Room AV control	1
11	Control system with serial, relays, I/O, IR, and Ethernet control ports	1
12	8 Channel Relay Controller	1
13	8 Channel Digital I/O Module	1
14	Multi-Stage Protection Power Conditioner	1
15	Wireless Access Point	1
16	16 Port PoE+ Smart Managed Ethernet Switch	1
17	USB Switcher	1
18	7 port hub	1
19	1x2 HDMI Distribution Amplifier	1

20	1x4 HDMI Distribution Amplifier	1
21	AV Equipment Rack	1
22	Cable Management System	3
23	Professional articulating display Manager for Managing of 2 No's of 75" Displays, Cameras and stereo speakers	1
24	Required Cables, Connectors & Accessories	1 set
25	Carpeting as per the room dimensions	1 No.

V) Conference Room-3, ITCCO; Bill of materials

S.No	Description	Quantity
1	75" Professional 4K UHD LED Display with High Brightness along with Wall Mount Kit	2 Nos
2	15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment with control buttons	7
3	Teams & IP dialing based Video Codec	1
4	Mini PC including i7, 12GB RAM, 500 GB SSD/NVMe, windows 11, antivirus along with wireless keyboard and mouse.	1
5	PTZ Video Camera- 20X Optical Zoom	1
6	Digital Signal Processor with Dante, AEC, VoIP, Telco & USB Audio	1
7	Ceiling Tile Microphone array with 360 degree coverage	1
8	In-Ceiling Speakers	4
9	Modular Type 8x8 4K HDMI Seamless Matrix Switcher with future upgradation up to 16x16 HDMI in and out ports	1
10	Touch Panel for Room AV control	1
11	Control system with serial, relays, I/O, IR, and Ethernet control ports	1
12	8 Channel Relay Controller	1
13	8 Channel Digital I/O Module	1
14	Multi-Stage Protection Power Conditioner	1
15	Wireless Access Point	1
16	16 Port PoE+ Smart Managed Ethernet Switch	1
17	USB Switcher	1
18	7 port hub	1
19	1x2 HDMI Distribution Amplifier	1
20	1x4 HDMI Distribution Amplifier	1
21	AV Equipment Rack	1
22	Cable Management System	3
23	Professional articulating display Manager for Managing of 2 No's of 75" Displays, Cameras and stereo speakers	1
24	Required Cables, Connectors & Accessories	1 set
25	Carpeting as per the room dimensions	1 No.

VI) 72 Seater E-Class Room Bill of materials

S.No	Description	Quantity
1	15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment	12 Nos.
2	7 port Hub	2
3	1x4 HDMI Distribution Amplifier	2
4	Required Cables, Connectors & Accessories	1 set

NOTE: The short listed vendor should co-ordinate with the existing partner of E- Class room for seamless integration of the content monitors without disturbing the existing functionality and ambience of the e-class room.

VII) HOD Cabins (11 nos.) Bill of materials

S.No	Description	Quantity
1	55" Professional 4K UHD LED Display with High Brightness along with Wall Mount Kit with 10m HDMI cable	11 Nos.
2	Required Cables, Connectors & Accessories	1 set

VIII) Miscellaneous materials

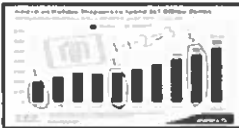
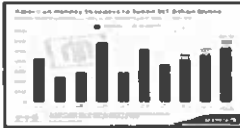
S.No	Description	Quantity
1	LCD Laser Projectors with mounting material (for Old 48 pax E-Classroom, main building)	2
2	Room Scheduler along with PoE Injectors	15
3	16 Port PoE+ Smart Managed Ethernet Switch	6
4	USB-C Hub for Mac & Windows USB-C Devices	9
5	Required Cables, Connectors & Accessories	1 set


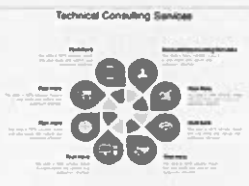
NOTE: The short listed vendor should co-ordinate with the existing partner of E- Class room for seamless integration of the Laser Projectors without disturbing the existing functionality and ambience of the e-class room.

4. Technical Requirements:

4.1 The Functional requirements of TP Room & Conference room-1 at main building, Conference room-2 & 3 in ITCOO building is as given below :

(Bidders must account for everything that is needed to provide the following scope of work)

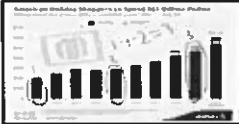
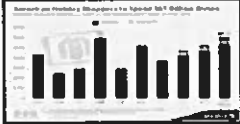
SI. No.	Detailed Description	Technical Requirement
1	Location: INCOIS	TP Room – 12 PAX Conference room 1, Main Building – 15 PAX Conference room 2 & 3, ITCOO Campus – 15 PAX
2	Purpose of the AV Room facility:	The solution should provide high quality local meetings / sessions and high-quality video sessions and conferences through native cloud platforms. The objective is to set-up such a solution to provide highly effective local meetings and AV meetings.
3	Conference room, different modes of configuration for different types of scenarios	<ul style="list-style-type: none"> • All-in-one Touch control panel with selectable modes for different types of meetings requirement. • All displays and set-up should become ready for the selected mode of meetings. • There should be a password login before using the conference room AV facility
3.1	Scenario-1: Local Meetings / Session	<ul style="list-style-type: none"> • Local Meetings / Session: <ol style="list-style-type: none"> This mode will be used when participants need to collaborate and discuss locally with presentation shared through laptop/pc. The shared presentation will be visible on available LED displays in front as well as on 15.6" touch content monitors installed on the tabletop in local meeting mode. It should be possible to view same or two different presentations on two front displays. <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;">Presentation-1 Presentation-2</p> ii. The shared presentation will be visible on the 2 nos of front side displays installed on the front wall.

		<p>iii. Presenters should have the option to share the presentation from his/her laptop to front displays through cable management boxes by HDMI cable.</p>
3.2	<p>Scenario-2: Video conference on preferred Native cloud platform</p>	<p>a. Video Meeting on Preferred Native cloud platform:</p> <p>i. Preferred cloud video platform should be easily selectable for native experience by pressing a button on the control panel and room displays should be optimized according to the platform selected.</p> <p>ii. On the preferred cloud video platform, all connected locations should be visible as gallery view including remote conference rooms & remote laptop participants on one of the display kept in front and the shared content should be visible in another display (Two Stream).</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;">Participants gallery view Presentation</p> <p>iii. Far Active speaker/ location can be pinned in the same display showing gallery view of connected participants. Shared content should also be visible on touch content monitors installed on conference table.</p> <p>b. Far Location Video Experience: In this mode, far participants should see all room participants as full room view, or focused view of speaking participant seated in the room.</p> <p>Should have a facility that content viewing, annotation & interactive whiteboarding on preferred cloud platform.</p> <p>Switching between various presentations can be done from the touch panel or by pressing the button on cable management boxes.</p> <p>Presenters should be able to show their presentation on the front display installed and on touch content monitors on the tabletop. Touch content monitors should enable them to interactively annotate on the content or do multiple locations interactive whiteboarding, if cloud video platform allows (features of MS Team).</p> <p>The touch content monitors should be table embedded, and the height of monitor should not be more than 100mm high at 150 degree recline from the table top so that they do not become obstruction.</p> <p>There should be no glare of overhead lights on the touch content monitor, while viewing content.</p> <p>c. Audio System & automatic speaker tracking system:</p> <p>i. The conference rooms should have high quality audio experience whether in local meetings or in video conference meetings.</p> <p>ii. This audio system should also enable automatic speaker tracking for any participant present in the conference rooms in such a way that</p>

		<p>their hands are also visible. It should also be possible to switch on and off the automatic speaker tracking by the user. Further, the average time to track the speaker should be around 5 seconds.</p> <p>iii. When the automatic speaker tracking functionality is switched off then manual “look at me” camera control should be activated on press of the button.</p> <p>iv. There should be no hiss & echo</p>
3.3	Scenario-3: BYOM (Bring Your Own Meeting) Configuration:	<ul style="list-style-type: none"> • BYOM (Bring Your Own Meeting) Configuration: <ul style="list-style-type: none"> i. Bring Your Own Meeting (BYOM) refers to a meeting space solution in which the user drives the meeting and room technology of camera displays & audio technology using their own laptops/PC's. The room technology responds to what kind of cloud VC meeting user brings into the meeting space on their device, putting the user at the center of the workflow and personalizing the meeting experience. ii. iii. In this mode all the far-end participants and the shared presentation together should be visible on one of the display & touch content monitors on the table. Further in this mode the local active speaker should be visible to all the far-end participants. iv. Content Annotation: The content annotation & whiteboarding (feature of MS Teams) should be supported, if cloud video platform allows.
3.4	Scenario-4: Video Meeting on IP (TP room only)	<p>The room should be capable of conducting video meetings on IP.</p> <p>a. Native experience with separate video and separate content in two separate displays should be there.</p>
4	Programming & Control Experiences	<p>b. Remote less, one single touch button System switches OFF and ON: The entire system is automated and with just one press of a button the entire system takes power ON and OFF. No remote is required to switch ON the displays or any device installed in the conference rooms. There should be a provision to set up a password before using the AV facility.</p> <p>c. All functionalities of the conference rooms should be easily set up / controllable through a touch panel of the required size not less than 10 inches.</p> <p>d. Further it should be very easily switchable between the preferred VC cloud platform, BYOD platform & Local meeting session.</p> <p>e.</p> <p>f. With one click button in touch panel, all the room functionalities of Audio, Video, control systems etc. and meeting options should be clearly brought out and the support from IT personals while using the system should be bare minimum.</p>
5	Room Lighting	<ul style="list-style-type: none"> • A combination of direct and indirect diffused lighting should be there in the room especially for sufficient lighting on the faces of the participants seated on the table. <p>The lighting during the video meetings should be designed in a manner that the light should fall on the participants faces without any under eye shadows during video meetings or too much of glare. Faces should be well lit always. The participants appearance in the room should be natural.</p>

6	Aesthetics	The front displays should be installed in such a way that they provide the highest eye contact with far side participants with optimal position of camera, no visible cables, speakers, cables and connectors. Also, the equipment's should be very easily accessible for maintenance.
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4.2 Functional requirements of Board room:

Sl. No.	Detailed Description	Technical Requirement
1	Location: INCOIS	Board Room – 30 PAX
2	Augmentation / upgradation of VC facility:	Existing boardroom to be upgraded for the highest audio experience in local meetings as well as in video meetings along with enhanced viewability of video and content along with speaker tracking and voice lift feature.
3	Different modes of configuration for different types of scenarios	<ul style="list-style-type: none"> All-in-one Touch control panel with selectable modes for different types of meetings requirement. All displays and set-up should become ready for the selected mode of meetings. There should be a password login before using the Board room AV facility
3.1	Scenario-1: Local Meetings / Session	<ul style="list-style-type: none"> Local Meetings: <ol style="list-style-type: none"> This mode will be used when participants need to collaborate and discuss locally with presentation shared locally in the boardroom through laptop/pc. The shared presentation will be visible on two 65" LED displays installed in front, two 65" displays are in left & right and as well as on 7 nos. touch content monitors (15.6") installed on the tabletop. It should be possible to view the same or two different presentations on two front displays. <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Presentation-1</p> </div> <div style="text-align: center;">  <p>Presentation-2</p> </div> </div> <p>The shared presentation will be visible on the 2 nos. of 65" display installed side by side on the front wall and left & right 65" displays. Presenters should have the option to share the presentation from his/her laptop to front displays through cable management boxes by HDMI cable.</p>
3.2	Scenario-2: Video conference on preferred Native cloud platform	<p>Video Meeting on Preferred Native cloud platform:</p> <p>Preferred cloud video platform should be easily selectable for native experience by pressing a button on the control panel and room displays should be optimized according to the platform selected.</p> <p>On the preferred cloud video platform, all connected locations should be visible as gallery view including remote conference rooms & remote laptop participants on one of the 65" display in front.</p> <p>Pinned speaker/ location can be pinned in another 65" display in front or in 2 nos. of 65" displays on both sides. Also, as an option- shared content can be displayed on this display separately.</p> <p>Shared content should also be visible on touch content monitors installed</p>

on conference table.

Pinned speaker/location or content can be displayed in side displays of 65" each.



Participants gallery view



Presentation

Far Location Video Experience: In this mode, far participants should see all room participants as full room view and a separate focused view of pinned speaking participant seated in the room. Far Active speaker/location can be pinned in the same display showing gallery view of connected participants. Shared content should also be visible on touch content monitors installed on conference table.

Should have a facility that content viewing, annotation & interactive whiteboarding on preferred cloud platform.

Switching between various presentations can be done from the touch panel or by pressing the button on cable management boxes.

Presenters should be able to show their presentation on the front display installed and on touch content monitors on the tabletop. Touch content monitors should enable them to interactively annotate on the content or do multiple locations interactive whiteboarding, if cloud video platform allows (features of MS Team).

The touch content monitors should be table embedded, and the height of monitor should not be more than 100mm high at 150 degree recline from the table top so that they do not become obstruction.

There should be no glare of overhead lights on the touch content monitor, while viewing content.

Audio System & automatic speaker tracking system:

The conference rooms should have high quality audio experience whether in local meetings or in video conference meetings.

This audio system should also enable automatic speaker tracking for any participant present in the Board room in such a way that their hands are also visible. It should also be possible to switch on and off the automatic speaker tracking by the user. Further, the average time to track the speaker should be around 5 seconds.

When the automatic speaker tracking functionality is switched off then manual "look at me" camera control should be activated on press of the button.

		<p>There should be no hiss & echo</p> <p>**Displaying the shared content and participants view over VC call should be user convenience.</p>
3.3	<p>Scenario-3:</p> <p>BYOM (Bring Your Own Meeting) Configuration:</p>	<p>• BYOM (Bring Your Own Meeting) Configuration:</p> <ul style="list-style-type: none"> i. Bring Your Own Meeting (BYOM) refers to a meeting space solution in which the user drives the meeting and room technology of camera displays & audio technology using their own laptops/PC's. The room technology responds to what kind of cloud VC meeting user brings into the meeting space on their device, putting the user at the center of the workflow and personalizing the meeting experience. ii. iii. In this mode all the far-end participants and the shared presentation together should be visible on one of the display & touch content monitors on the table. Further in this mode the local active speaker should be visible to all the far-end participants. iv. Content Annotation: The content annotation & whiteboarding (feature of MS Teams) should be supported, if cloud video platform allows.
4	<p>Audio Experience:</p> <p>Automatic Speaker Tracking in the boardroom</p>	<p>Audio System & automatic speaker tracking system:</p> <ul style="list-style-type: none"> g. The boardroom should have high quality audio experience whether in local meetings or in video conference meetings with an automatic voice lift, so that all room participants can be heard properly without having to speak into any microphone. h. This audio system should also enable automatic speaker tracking for the participants present in the boardroom in such a way that their hands are also visible. It should also be possible to switch on and off the automatic speaker tracking by the end user. Further, the average time to track the speaker should be around 5 seconds. i. When the automatic speaker tracking functionality is switched off then "look at me" camera control should be activated. j. There should be no hiss & echo
5	<p>Programming & Control Experiences</p>	<ul style="list-style-type: none"> k. Remote less, one single touch button System switches OFF and ON: The entire system is automated and with just one press of a button the entire system takes power ON and OFF. No remote is required to switch ON the displays or any device installed in the conference rooms. There should be a provision to set up a password before using the AV facility. l. All functionalities of the conference rooms should be easily set up / controllable through a touch panel of the required size not less than 10 inches. m. Further it should be very easily switchable between the preferred VC cloud platform, BYOD platform & Local meeting session. n. o. With one click button in touch panel, all the room functionalities of Audio, Video, control systems etc. and meeting options should be clearly brought out and the support from IT personals while using

		the system should be bare minimum.
6	Room Lighting	<ul style="list-style-type: none"> A combination of direct and indirect diffused lighting should be there in the room especially for sufficient lighting on the faces of the participants seated on the table. <p>The lighting during the video meetings should be designed in a manner that the light should fall on the participants faces without any under eye shadows during video meetings or too much of glare. Faces should be well lit always. The participants appearance in the room should be natural.</p>
7	Aesthetics	The front displays should be installed in such a way that they provide the highest eye contact with far side participants with optimal position of camera, no visible cables, speakers, cables and connectors. Also, the equipment's should be very easily accessible for maintenance.

4.3 72 PAX E-Classroom at ITCOO building:

(Bidders must account for everything that is needed to provide the following scope of work)

SI. No.	Detailed Description	Technical Requirement
1	Location: ITCOO Building, INCOIS, Hyderabad	72-Seater E-Classroom Seating capacity for local training sessions, conferences, seminars and video training through online meetings minimum of 72 PAX seating capacity.
2	Viewing experience	To enhance the content viewability for the participants seated on last rows, on-table content monitor to be provisioned. One content monitor to be shared between two participants.
3		These content monitors should also enables whiteboarding and annotation features of MS Teams.

NOTE: The short listed vendor should co-ordinate with the existing partner of E- Class room for seamless integration of the content monitors without disturbing the existing functionality and ambience of the e-class room.

4.4 HOD Cabins (11 nos.), at Main building:

(Bidders must account for everything that is needed to provide the following scope of work)

SI. No.	Detailed Description	Technical Requirement
1	Location: Main Building INCOIS, Hyderabad	The existing HOD Cabins to be upgraded with 55" display with HDMI connectivity for presentation sharing
2	Purpose of the Conference Room facility:	To share presentation/content on 55" display using HDMI connectivity from table. Cable routing from table to display to be made.

4.5 Miscellaneous items:

SI. No.	Detailed Description	Technical Requirement
1	Location: INCOIS, Hyderabad	48-seater E-Classroom Main Building and various other rooms.

2	Projectors for main display in E-Classroom, main building	To enhance the viewability of the main display in E-classroom, new projectors (2nos.) of 5200 lumen brightness to be used.
3	Room Scheduler	Room schedulers to be fixed outside the meetings rooms/ classroom for showing the booking status and also to book from the panel.

NOTE: The short listed vendor should co-ordinate with the existing partner of E- Class room (48-seater) for seamless integration of the Laser Projectors without disturbing the existing functionality and ambience of the e-class room.

5. Technical Specifications:

55" Professional 4K UHD LED Display with High Brightness along with Wall Mount Kit			
S. No.	Parameter	Specifications	
1	Diagonal Size	55 Inch	
2	Resolution	3840x 2160	
3	Minimum brightness	400 Cd/m2 or better	
4	Viewing angle	178 deg	
5	Speaker	Built in (20 Watts)	
6	Input Connectivity	DP/HDMI 2.0 x 3, USB 2.0 x 2, Audio Out x 1 or more	
7	IP Rating	IP5x or better	
8	Control	RJ 45 x 1, RS-232 In & Out x1, should be controllable from external controller via IP/IR/RS232.	
9	Operation Hours	16 hours / day	
10	Direct/ Ease of viewing	Display must have Direct viewing of PPT, Word, PDF, Images & Videos from USB Drive	
11	Mount	Wall mount should be included.	
12	Accessories	It should have all the required cables and Accessories.	

65" Professional 4K UHD LED Display with High Brightness along with Wall Mount Kit			
S. No.	Parameter	Specifications	
1	Diagonal Size	65 Inch	
2	Resolution	3840x 2160	
3	Minimum brightness	400 Cd/m2 or better	
4	Viewing angle	178 deg	
5	Speaker	Built in (20 Watts)	
6	Input Connectivity	DP/HDMI 2.0 x 3, USB 2.0 x 2, Audio Out x 1 or more	
7	IP Rating	IP5x or better	
8	Control	RJ 45 x 1, RS-232 In & Out x1, should be controllable from external controller via IP/IR/RS232.	
9	Operation Hours	16 hours / day	
10	Direct/ Ease of viewing	Display must have Direct viewing of PPT, Word, PDF, Images & Videos from USB Drive	
11	Mount	Wall mount should be included.	
12	Accessories	It should have all the required cables and accessories.	

75" Professional 4K UHD LED Display with High Brightness along with Wall Mount Kit			
S. No.	Parameter	Specifications	
1	Diagonal Size	75 Inch	
2	Resolution	3840x 2160	
3	Minimum brightness	400 Cd/m2 or better	
4	Viewing angle	178 deg	
5	Speaker	Built in (20 Watts)	
6	Input Connectivity	DP/HDMI 2.0 x 3, USB 2.0 x 2, Audio Out x 1 or more	
7	IP Rating	IP5x or better	
8	Control	RJ 45 x 1, RS-232 In & Out x1, should be controllable from external controller via IP/IR/RS232.	
9	Operation Hours	16 hours / day	
10	Direct/ Ease of viewing	Display must have Direct viewing of PPT, Word, PDF, Images & Videos from USB Drive	
11	Mount	Wall mount should be included.	
12	Accessories	It should have all the required cables and accessories.	

15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment			
S. No.	Parameter	Specifications	
1	Diagonal Size	15 -16 Inch	
2	Type	Touch display embedded in the table with one finger manual + Tilt/ - Tilt operation up to 150 degrees of inclination. *Motorized monitors are not acceptable	
3	Hight of display whenfully inclined	The Content Monitors at an angle of 150 degrees should not be more than 100 mm above the table surface so that they never act as an obstruction on the table for the other participants.	
4	Angle of View	Adjustable Angle of view/ inclination from 90 to150 degrees. (To be completely unobtrusive in the meeting) It should not be adjustable more than 150-degree else users will not be able to read the content.	
5	Viewability	Monitor should have visible image display area starting just from the table top level, for enhance visibility.	
6	Resolution	1920 x 1080 True High Definition	
7	Aspect Ratio	16:9	
8	Contrast Ratio	800:1 or more	
9	Brightness	250 nits or more	
10	Input interface	HDMI, USB 3.0	
11	Touch	Should be Touch-enabled for Interactive whiteboarding and content annotation	
12	Retrofitting Capability	The depth inside the table should be less than or equal to 4 inches/100mm for easy retrofitting on existing Table and avoid the contact between user legs.	
15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment			

S. No.	Parameter	Specifications	
1	Diagonal Size	15 -16 Inch	
2	Type	Touch display embedded in the table with one finger manual + Tilt/ - Tilt operation up to 150-degrees of inclination. *Motorized monitors are not acceptable	
3	Hight of display whenfully inclined	The Content Monitors at an angle of 150 degrees should not be more than 100 mm above the table surface so that they never act as an obstruction on the table for the other participants.	
4	Angle of View	Adjustable Angle of view/ inclination from 90 to150 degrees. (To be completely unobtrusive in the meeting) It should not be adjustable more than 150-degree else users will not be able to read the content.	
5	Viewability	Monitor should have visible image display area starting just from the table top level, for enhance visibility.	
6	Resolution	1920 x 1080 True High Definition	
7	Aspect Ratio	16:9	
8	Contrast Ratio	800:1 or more	
9	Brightness	250 nits or more	
10	Input interface	HDMI, USB 3.0	
11	Touch	Should be Touch-enabled for Interactive whiteboarding and content annotation	
12	Retrofitting Capability	The depth inside the table should be less than or equal to 4 inches/100mm for easy retrofitting on existing Table and avoid the contact between user legs.	
13	Control Buttons	2 nos. led backlight button with contact closure circuit that can be used for camera preset recalling of in-room camera for Look-at-me feature via third party control processor.	

LCD Laser Projector			
S. No.	Parameter	Specifications	
1	Projector type	LCD Laser	
2	Brightness	5400 Lumens	
3	Resolution	WUXGA	
4	Form factor	Lightweight and compact	
5	Mounting provision	Ceiling mounting	

Teams & IP dialing based Video Codec			
S. No.	Parameter	Specifications	
1	Video Input	2 x USB 3.0, 1 x USB-C DP Alt Mode, 1 x HDMI 2.0	
2	Video out	2 x HDMI 2.0, Touch Display Compatible	
3	Audio Output	1 x HDMI, USB (UAC), 1 x 3.5 mm stereo line-out	

4	Audio Input	USB (UAC), USB-C DP Alt Mode, 1 x HDMI, 1 x 3.5 mm stereo line-in, up to 3 IP Microphones	
5	People Video Resolution	4K, 30 fps (TX and RX) from 2048 Kbps; 1080p, 60 fps from 1740 Kbps; 1080p, 30 fps from 1024 Kbps; 720p, 60 fps from 832 Kbps; 720p, 30 fps from 512 Kbps	
6	Video Output Resolutions	UHD (3840 x 2160), HD (1920 x 1080), HD (1280 x 720)	
7	Certifications	Microsoft Teams, Zoom	
8	IP calling	Yes	
9	Touch Panel	Yes	

Mini PC including i7, 12GB RAM, 500 GB SSD/NVMe, windows 11, antivirus along with wireless keyboard and mouse.

S. No.	Parameter	Specifications	
1	Processor	i7	
2	RAM	12GB or higher	
3	Storage	SSD/NVMe, 500 GB or higher	
4	Others	OS: Windows 11, Antivirus	
5	Accessories	Wireless keyboard & mouse	

PTZ Video Camera- 20X Optical Zoom

S. No.	Parameter	Specifications	
1	Camera type	Broadcast type	
2	Video format:	1080p 60/59.94/50/30/29.97/25 1080i 60/59.94/50 720p 60/59.94/50	
3	Video Output:	HDMI x 1 SDI x 1, RJ-45	
4	Tally LED:	Dual color (Red, Green)	
5	Image Sensor:	1/2.8" high quality HD CMOS sensor	
6	Effective Pixels (approx.):	2.07 Mega pixels	
7	S/N Ratio:	>50dB	
8	Min. Illumination	0.5 - 1.0 Lux (F1.8, AGC ON)	
9	Electronic Shutter:	Auto / Manual	
10	Zoom Ratio:	20x Optical zoom and 10X Digital Zoom	
12	Digital Noise Reductions:	yes	
13	White Balance:	Auto, Manual	
14	AGC / Gain Control:	Auto / Manual Max. Gain Limit	
15	Mirror/ Flip Image	Yes	
16	Preset	255 programmable position presets including pan, tilt and zoom positions	
17	Focal Length & Aperture	f=5.2 (wide) to 98 (tele) mm F1.6 to F3.5	
18	Focus Mode:	Auto / Manual	

19	Panning/Tilting Range	Pan: 340°, Tilt: +90° to -30°	
20	Panning/Tilting Speed	Manual: 1~60°/Sec Swing: 1~30°/Sec	
21	Field of View (Horizontal, Wide):	Approx. 54.7° (WIDE END) / 3.3° (TELE END)	
22	Image Compensation:	Backlight Compensation	
23	Control Protocol	VISCA/VISCAIP/Pelco-D/ONVIF	
24	Remote Control Interface and Transmit Distance	RJ-45: for IP control (DVIP) RS-232 RS-422	
25	Power Supply:	Provide power cable for operations on Indian standard power supply condition	
26	Power consumption	16W approx..	

Digital Signal Processor with Dante, AEC, VoIP, Telco & USB Audio			
S. No.	Parameter	Specifications	
1	Inputs	Minimum 8 nos. Mic/Line inputs with Acoustic Echo Cancellation (AEC) and Noise Cancellation feature for all inputs	
2	Outputs	Minimum 6 nos. line Outputs.	
3	Echo Cancellation	Distributed Echo Cancellation per Mic Input, Noise Cancellation up to 25dB	
4	USB Interface	2x2 USB connectivity with cloud-based collaboration platforms such as Teams, Zoom etc.	
5	Frequency Response	22Hz to 22KHz Full Spectrum Support	
6	Dynamic range	110 dB or better	
7	Propagation delay	4ms or better	
8	Crosstalk (input to input @1KHz)	<110dB	
9	VoIP Conferencing	Support for VoIP Conferencing up to Five SIP Phones in a single DSP with compatibility to major PABX platforms such as Cisco, Avaya, ShoreTel, Mitel etc..	
10	Control	Should have RS-232 serial port and LAN port for 3rd. part control and monitoring.	
11	Signal processing Capability	Signal processing via intuitive software to allow the configuration and control for signal routing, mixing, equalization, delay, Filters, Delays, Compressors, Feedback Eliminators, Automatic Gain/ Level Control etc.	
12	GPIO ports	Min. 2 GPIO ports for logic controls	
13	PSTN (POTS) and SIP/ VoIP Soft phone support	It should have physical ports for connecting the POTS and SIP/VoIP Softphone. And Software Dialer for PSTN connections should be provided for Windows PC, iOS, Android platforms	
14	Built-in Amplifier	Should have inbuilt amplifier of 2 x 10 watts	

15	Certifications / Compliances	CE, FCC Part 15B, RoHS	
16	Accessories	It should be supplied with all accessories.	
17	Special Term	DSP & Ceiling Tile Microphone should be from the same OEM so that single software application to be provided to monitor, control & audit both DSP mixer & Tile Microphone array.	

Ceiling Tile Microphone with 360 deg coverage

S. No.	Parameter	Specifications	
1	Mic Type & Pick-up pattern	Ceiling Tile Microphone with Automatic Dynamic Beamforming for Video Conferencing and TruVoicelift facility in local meetings & Beam pattern	
2	Minimum no. of omni-directional microphone elements	28	
3	Coverage area	75-80 sq-mtrs	
4	Certifications	MS Teams & Zoom certified	
5	Zoning category	Exclusion & Priority zone with automatic speaker tracking functionality	
6	Connectivity	Dante type	
7	Lighting indication	All four corners (With specific lighting indication for On- call & Mute)	
8	Latency	4 ms	
9	Audio Output	1 x 3-pin terminal (fits Phoenix contact MCVW 1.5-3-ST-3.81) 2 x Digital Dante Network Audio for RJ-45 primary & secondary	
10	Ethernet / Control	1 x RJ-45 Ethernet Port for PoE power supply and data/control communication	
11	Max. Sound pressure level	104 dB SPL	
12	Power consumption (Amp)	Max. 8.8 W	
13	Signal to Noise Ratio	83 dB (A)	
14	Audio Frequency response	160-18 KHz	
15	Dynamic range	93 dB (A)	
16	Equivalent noise level (dB)	11 dB (A)	
17	Sensitivity	0 dBV/Pa	
18	Control software	Capable of monitoring all microphones from single software.	

19	Configurable features	Microphone shall offer built-in configurable functions such as Acoustic Echo Cancellation, Noise Cancellation, Filters, Automatic Level Control, Auto Mixer etc.	
20	Installation Type	Shall support ceiling grid flush type, surface, and suspended column mount Installation methods	
21	Accessories	PoE++ Injector shall be included as necessary to support the Beamforming Mic Array	
22	Safety certification	UL 62368 certification (including UL 2043 testing and compliance)	
23	Additional capability	Ceiling Tile Microphone & DSP should be from the same OEM so that, single software application to be provided to monitor, control & audit both DSP mixer & Tile Microphone array.	

In-Ceiling Speakers

S. No.	Parameter	Specifications	
1	Speaker type:	2-way, in-ceiling speaker with metal back can & rimless grill in white color	
2	Frequency range:	50 Hz to 20 kHz or better	
3	Power handling:	60 Watts RMS, 120 Watts peak	
4	Nominal sensitivity:	90 dB, 1W@1m or better	
5	Nominal coverage angle:	120° conical coverage	
6	Nominal impedance:	8 ohms	
7	Inbuilt Transformer taps with selectable.	Power of 30W, 15W, 7.5W on 100V tap & 30W, 15W, 7.5W & 3.8W on 70V tap	
8	Woofers:	Minimum 6.5" or bigger size polypropylene cone with moisture resistant coating.	
9	Tweeter:	Minimum 1.5" or bigger size silk dome	
10	Overload protection:	Full range power limiter with general the 8-ohm direct input only, protecting the tweeter, woofer, and crossover.	
11	Special condition	The speaker should be supplied with tile bridge for easy installation	

Modular Type 8x8 4K HDMI Seamless Matrix Switcher with future upgradation up to 16x16 HDMI in and out ports

S. No.	Parameter	Specifications	
1	HDMI Interface	Minimum 8 HDMI inputs and 8 HDMI outputs. Should have minimum 25% upgrade capability for I/O ports for any future expansion through optional I/O cards.	
2	Audio Interface	8 Audio Inputs and 8 De-embedded Audio Outputs. Should have minimum 25% upgrade capability for I/O ports for any future expansion through optional I/O cards.	
3	Video resolution	Should support native 3840x2160 @60 Hz resolution	
4	Inbuilt Scaling	Should support built in scaler to true 4K resolution 3840x2160 @60 Hz	

5	Multiformat support	Should support multi format analog signals via DVI-I input & output cards	
6	HDMI standard	Should Support minimum HDMI 2.0 standards	
7	HDCP	Should Support minimum HDCP 2.2 standards	
8	EDID Management	Should Support.	
9	HDMI audio extract	Should support.	
10	Seamless Switching	Should Support.	
11	Switching time	Should be less than 30 milliseconds during switching from one source to another source. (Should not show any blue/black screen intervals in switching between input sources)	
12	Video Wall functional capability	Should Support.	
13	Front Panel Control	Should Support.	
14	Third Party Control	RS232, TCP/IP (LAN 10M/100M) control	
15	Control via software	Control Software should support to facilitate remote control	
16	Real time display for input and output status	Should support	
17	Power Supply	It should have inbuilt dual power supply units for creating redundancy & should auto switch in case of failure	
18	OEM	The matrix switcher, input and output cards, Transmitter and receiver should be from the same OEM.	

Touch panel for Room AV Control

S. No.	Parameter	Specifications	
1	Controller	10" diagonal or above wireless Controller along with detachable wall/dock and sleeve	
2	Controller OS	Latest Version	
3	Controller Resolution	2160 x 1620 pixels or better	
4	Controller Brightness	Minimum 500 nits	
5	Controller Storage	64 GB or more	
6	Controller Mounting Type	Surface or wall mount or table	
7	Mounting Dock type and accessories for controller	A magnetic type of detachable table docking station with induction technology for charging the above Wi-Fi touch screen should be provided. All accessories should be included.	
8	Controller additional Feature	It should be interactable with third-party apps and hardware via processor for room automation.	
9	GUI Application	Controller should have the Room Control Application which should be compatible with Room Control devices and should have the provision of smart icons for user friendly operation. GUI Application shall be from the same OEM as that of control processor.	

control system with serial, relays, I/O, IR, and Ethernet control ports

S. No.	Parameter	Specifications	
1	Control Processor	Should have Stand-alone web-based control processor with Dual Core 1.2GHz Processor	
2	IP Control Engine	Web Server, FTP, Browser	
3	Ethernet	Should have Dual 10/100/1000Mbps LAN (Port 1 PoE PD)	
4	Connectivity	Should have Bidirectional RS-232 (Serial) x 3 No., IR / 1-way Serial Ports x 3 No., I/O with A/D x 2 No., SPDT Relays x 2 No., IR Receiver, Real-Time Clock, OLED display for status indication, TCP-IP Client / Server, telnet for 3rd party devices that can be controlled on LAN, Inbuilt IR Learner, Powered via PoE..	
5		Should support customized Webpages loading on the same processor & can be browsed from a PC for control / Monitoring purpose.	
6	GUI	If any license required for control iPad / Android pad, Application for third party touch Panel should be included.	
7	Accessories	Should be included.	

8 Channel Relay Controller

S. No.	Parameter	Specifications	
1	Channels	It should have 8 relay channels each supporting 10AMP of load or more	
2	Voltage Support	240VAC ,50/60H	
3	Maximum Power Per Channel	2200 W	
4	Maximum Current load per channel	10A, total current load 80A	
5	Load Type	Each channel should handle incandescent loads up to 10 Amps, fluorescent loads up to 5 Amps, and 1/2 HP motor loads	
6	Control	Should be controllable through 3rd Party control system via RS 232 or RS485 or TCP-IP	
7	Accessories	Should be included.	

8 Channel Digital I/O Module

S. No.	Parameter	Specifications	
1	Voltage Support	240VAC ,50/60H	
2	Input Voltage	5V	
3	Maximum Current load per channel	AC-10Amps (NO) / 3Amps (NC) and DC- 5Amps (NO) / 3Amps (NC)	
4	Inputs	Minimum 8 channels to provide Digital Input interface	
5	Outputs	Minimum 8 channels to provide Digital Output interface	

6	Auto Sensing	It should auto sense contact closure signal from Look at me & Show my PC buttons keypad, any switcher, any kin of motion sensor etc.	
7	Display LED	It should have LEDs on the modules indicating communication, input power to the module and output power to the load.	
8	Controls	Should be controllable through 3rd Party control system via RS 232 or RS485 or TCP-IP	
9	Accessories	Should be included.	

Multi-Stage Protection Power Conditioner

S. No.	Parameter	Specifications	
1	Operating Voltage	180 to 274 VAC with led type voltmeter on front panel along with retractable led light with dimmer to illuminate equipment rack area	
2	Over Voltage Shutdown	275 VAC typically	
3	Current Rating	10 Amps	
4	Response Time	One nanosecond or less	
5	Spike Clamping Voltage	376 VAC peak @ 3,000 Amps, 266 VAC RMS	
6	Spike Protection Modes	Line to neutral, zero ground leakage	
7	Noise Attenuation	10 dB @ 10 kHz, 40 dB @ 100 kHz, 50 dB @ 500 kHz Linear attenuation curve from 0.05-100 Ohms line impedance	
8	Maximum Surge current	6500 Amps	
9	Outlets	Minimum 1 on front panel & 8 on back panel outlet bank with isolation to minimize inter-component interference & noise contamination	
9	Accessories	Should be included.	

Wireless Access Point

S. No.	Parameter	Specifications	
1	AP Type	300Mbps wireless speed ideal for smooth HD video, voice streaming and control protocols.	
2	Operation Mode	Access Point, Multi-SSID, Client, Universal/WDS Repeater, Bridge with AP	
3	Capability	Should be capable easily setup a WPA encrypted secure connection at a push of a single button. And should be capable to communicate between user interface device and other AV devices.	

16 Port PoE+ Smart Managed Ethernet Switch

S. No.	Parameter	Specifications	
1	1000Base-T Interface	16 Port all POE+ (190W) Gigabit Smart Managed Ethernet Switch with 2 SFP uplink Port	

2	Switching capacity	48 Gbps or more & shall be in non-blocking architecture	
3	PoE Support	Yes	
4	PoE Management	All 24 Port should support POE+ with minimum 190W power budget	
5	Fan	Fan less or maximum 2 fans	
6	Auto MDI/MDIX	Should have.	
7	Capability	It should be providing the network capability to all connected AV devices	

USB Switcher

S. No.	Parameter	Specifications	
1	Host Connections	4 x USB Type B female ports, it should allow to connect to 4 host devices with remote switching to connected 4 USB peripheral devices	
2	Peripherals connections	4 x USB Type A female ports, it should allow to connect up to 4 peripheral devices which automatically connects to the selected Host/connected PC	
3	USB Compatibility	All USB ports should support minimum USB 3.1 Gen 1 standard with 5 Gbps of data sharing/transfer	
4	Control	Should have inbuilt or external support for RS-232 or TCP-IP protocols for third party controls	
5	Multiplatform support	Should Support Windows, Mac and Linux. Supports hot plugging. Power on detection.	

7 port hub

S. No.	Parameter	Specifications	
1	Qty	5 No's (1no. in Conf. room1 main building, 1 no. in Conf. room 2 ITCOO building, 1 no. Conf. room3 ITCOO building & 2 nos. in E-classroom ITCOO building)	

1x2 HDMI Distribution Amplifier

S. No.	Parameter	Specifications	
1	Input	1 x HDMI 2.0	
2	Output	2 x HDMI 2.0	
3	Resolution support	Should support up to 4096 x 2160 or 3840 x 2160 30Hz at 4:4:4 and 60Hz at 4:4:4	

1x4 HDMI Distribution Amplifier

S. No.	Parameter	Specifications	
1	Input	1 x HDMI 2.0	
2	Output	4 x HDMI 2.0	

3	Resolution support	Should support up to 4096 x 2160 or 3840 x 2160 30Hz at 4:4:4 and 60Hz at 4:4:4	
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USB-C Hub for Mac & Windows USB-C Devices

S. No.	Parameter	Specifications	
1	Input	1 x Type C	
2	Output	4K HDMI (1 No or more), 1gbps Ethernet port (1 No), USB 3.0 (2 Nos or more), 3.5mm Audio (1 No), TF/SC card reader (1 No), Type-C port (1No or more)	
3	Material	Aluminum / Metal casing	
4	Features	All ports in a single casing hub, Plug and Play type, without installation of any drivers/software	

AV Equipment Rack

S. No.	Parameter	Specifications	
1	Size	Minimum 12U or in multiple of 12U as per requirement	
2	Hardware and Power Extensions	All mounting hardware & power-strips should be included.	
3	Fan	Silent Cooling Fans Should be included.	
4	Load Capacity	Should be sufficient for all mounting equipment.	
5	Casters	Should be included.	
6	Equipment Tray	Should be included.	

Cable Management System

S. No.	Parameter	Specifications	
1	Pass through	Should have 6 nos. pass through holes with grommets for routing any kind of patch cords such as HDMI/USB Type C, LAN, Laptop charger cable etc.	
2	Power Socket	Should have 2 nos. 10 AMP universal power sockets.	
3	USB Charging	Should have 2 nos. USB ports for charging mobile phones	
4	Momentary button	Should have minimum 3 no. inbuilt led backlight micro button on the bezel with contact closure circuit for seamless switching of connected sources via third party control processor	
5	Color	Should be Anodized Aluminum finish.	

6	Additional Features	The Cable Management box should have an agronomical flap which opens and enables participants to access power/usb sockets & other cables very easily. It should ensure room to be 24/7 ready for the meetings/training. Color and size (Depth) should be matched with on table Touch Content monitors for aesthetical look.	
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Room Scheduler (Professional 10.1" Room Scheduling Touch Screen with side led lighting, 180 degree visual indicator of room status)

S. No.	Parameter	Specifications	
1	Panel Size	10.1" diagonal touch	
2	Touch type	Capacitive Touch	
3	Power connectivity	PoE type	

Supply, Installation, Testing and Commissioning of Professional Studio Video Conference Lightings:

Telepresence Light Fixture: Providing and fixing of special 2' x 2' VC fixture complete with LED lamps of 4000k Fixture, the light falls on the faces of the participants for bright faces without any glare in video meeting.

Qty- 20 Nos

(10 nos. in TP room and 10 nos in Conf Room1)

Professional articulating display Manager for Managing of 1 No's of 65" Displays, Cameras and stereo speakers

S. No	Parameter	Specifications	
1	Professional Monolithic Display stand should include:	The stand should be elegant, monolithic free-standing structure which should be built with modular design with heavy duty square aluminum sections to give high rigidity and is to be clad with MDF & finished with customer selected PVC Veneer to give one of its kind beautiful free-standing structures that should houses three displays of 65" diagonal, mounted in 15 degrees articulating fashion, multiple cameras, FOH speakers, and cables.	
2	Power Socket	The design should also allow mounting of the video cameras at perfect height for lowest parallax error to give highest possible eye contact to the far site participants.	
3	USB Charging	Further it should hide all the backs & sides of all displays, cameras, speakers & cables to give an absolute clean front as well as a clean back for high aesthetic appeal.	
4	Momentary button	This should also give a capability to be mounted against glass partitions and windows while complimenting aesthetics, giving an immense flexibility in the Room design & also should have the provision of openable flaps to ensure easy periodic checks & maintenance.	

Professional articulating display Manager for Managing of 2 No's of 65" Displays, Cameras and stereo speakers

S. No	Parameter	Specifications	
1	Professional Monolithic Display stand should include:	The stand should be elegant, monolithic free-standing structure which should be built with modular design with heavy duty square aluminum sections to give high rigidity and is to be cladded with MDF & finished with customer selected PVC Veneer to give one of its kind beautiful free-standing structures that should houses three displays of 65" diagonal, mounted in 15 degrees articulating fashion, multiple cameras, FOH speakers, and cables.	
2	Power Socket	The design should also allow mounting of the video cameras at perfect height for lowest parallax error to give highest possible eye contact to the far site participants.	
3	USB Charging	Further it should hide all the backs & sides of all displays, cameras, speakers & cables to give an absolute clean front as well as a clean back for high aesthetic appeal.	
4	Momentary button	This should also give a capability to be mounted against glass partitions and windows while complimenting aesthetics, giving an immense flexibility in the Room design & also should have the provision of openable flaps to ensure easy periodic checks & maintenance.	

Professional articulating display Manager for Managing of 2 No's of 75" Displays, Cameras and stereo speakers

S. No	Parameter	Specifications	
1	Professional Monolithic Display stand should include:	The stand should be elegant, monolithic free-standing structure which should be built with modular design with heavy duty square aluminum sections to give high rigidity and is to be cladded with MDF & finished with customer selected PVC Veneer to give one of its kind beautiful free-standing structures that should houses three displays of 75" diagonal, mounted in 15 degrees articulating fashion, multiple cameras, FOH speakers, and cables.	
2	Power Socket	The design should also allow mounting of the video cameras at perfect height for lowest parallax error to give highest possible eye contact to the far site participants.	
3	USB Charging	Further it should hide all the backs & sides of all displays, cameras, speakers & cables to give an absolute clean front as well as a clean back for high aesthetic appeal.	
4	Momentary button	This should also give a capability to be mounted against glass partitions and windows while complimenting aesthetics, giving an immense flexibility in the Room design & also should have the provision of openable flaps to ensure easy periodic checks & maintenance.	

Supply, Installation, Testing and Commissioning for Bulk Cables and Connectors.

Supply, installation testing and commissioning for A set of bulk cables such as Ethernet, Audio, Speaker, Control, USB (Type A, B & C), HDMI, Patch Cable, and other required Connectors.

Supply, Installation, Testing and Commissioning for Acoustic Paneling to be installed on inner side of room elevations:

Providing and fixing acoustic panel of 0.9 NRC in 25mm thickness, covered with acoustically transparent, fire retardant fabric of approved shade to be fixed after dado level of 900mm till door frame height / maximum 2400 mm height from the floor level.

Supply, installation testing and commissioning for Table re-conditioning, repairing and filling of existing cut-outs, re-veneering of top with PVC Veneer.

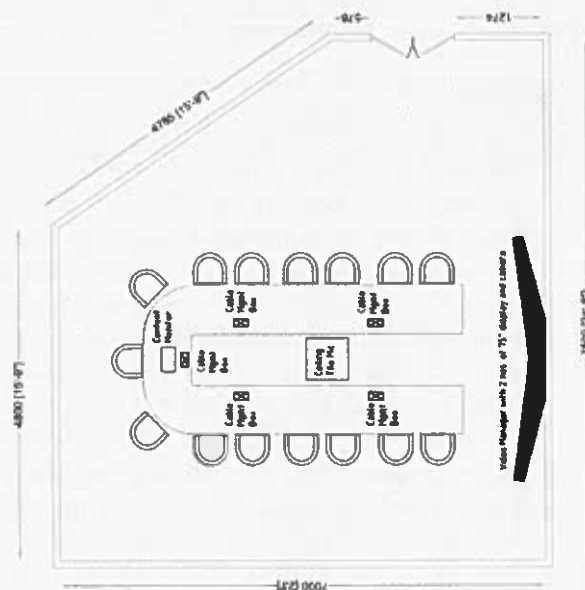
Carpeting:

Professional Aesthetically beautiful & High quality Nylon Carpet of 4 mm thickness applied with Green rated Adhesive for zero formaldehyde emissions.

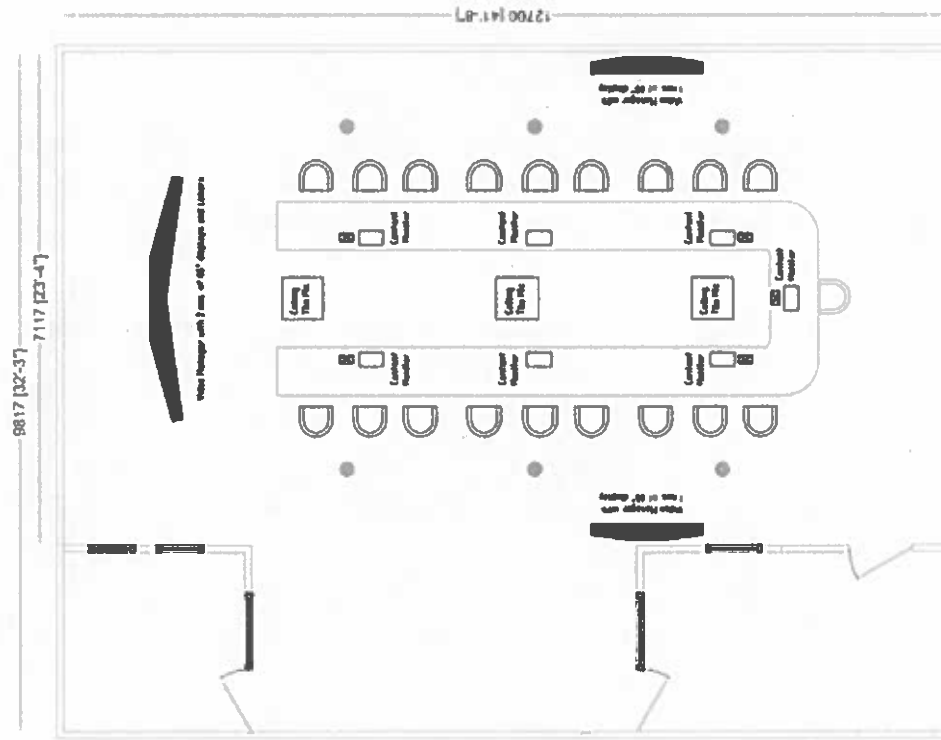
Offers received without the Technical Specification compliance will be summarily rejected.

6. Tentative SCHEMATIC LAYOUTS:

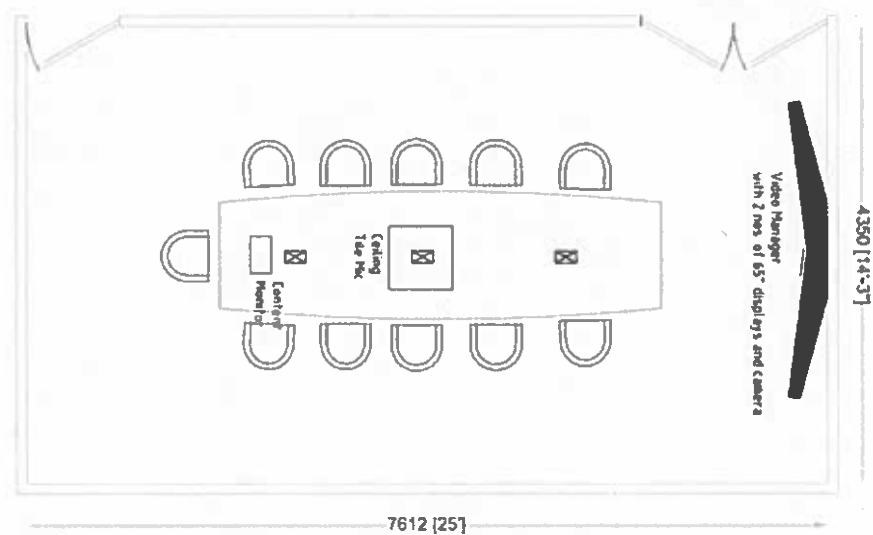
7.1 Schematic of the proposed upgradation for TP Room:



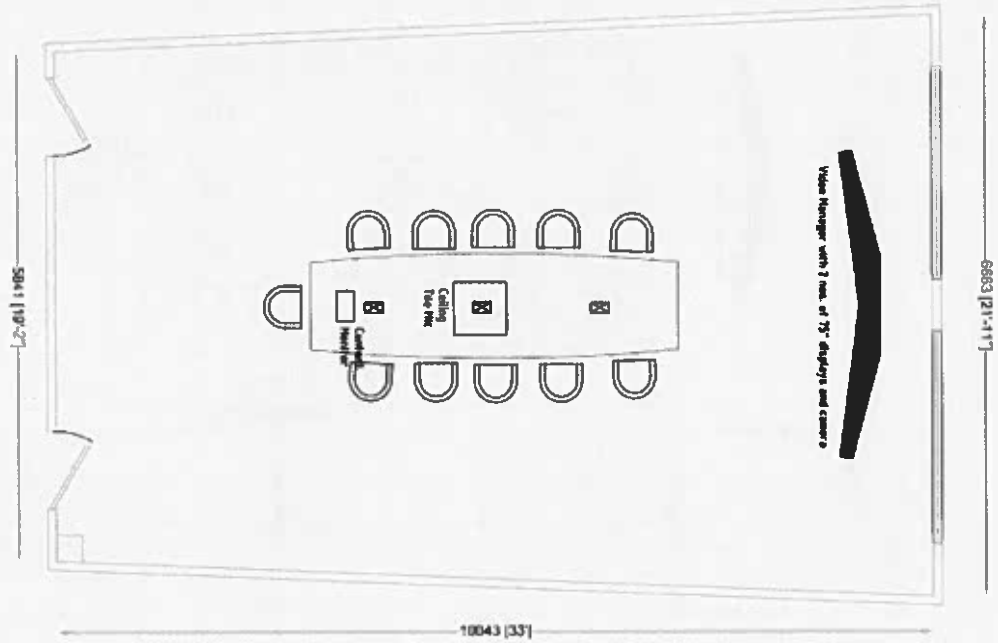
7.2 Schematic of the proposed upgradation for Board Room:



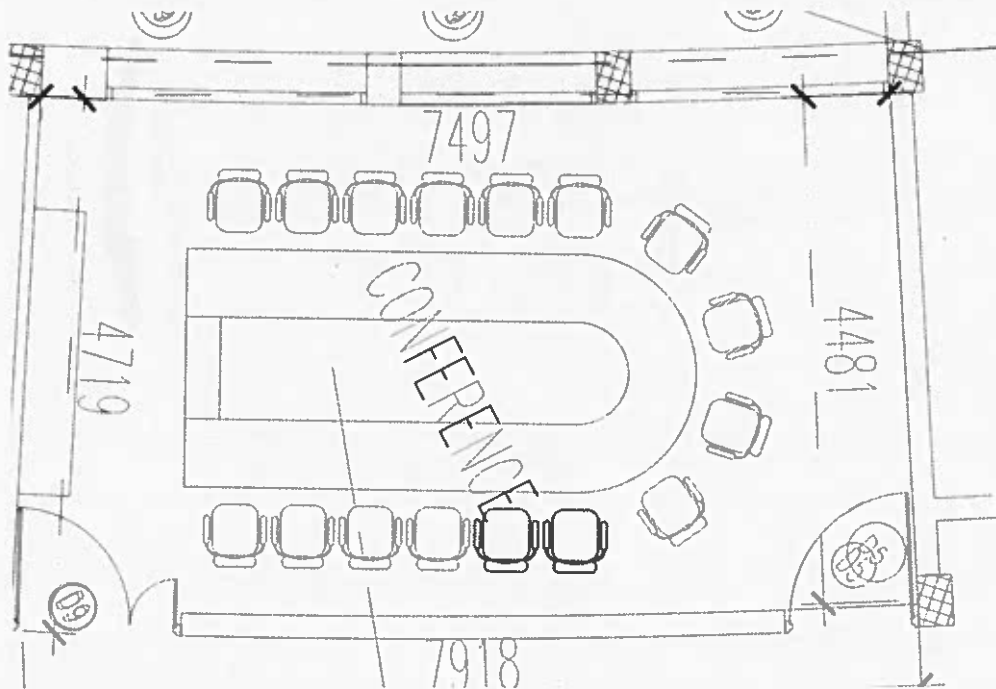
7.3 Schematic of the proposed upgradation for Conference Room, 1st Floor Main Building:

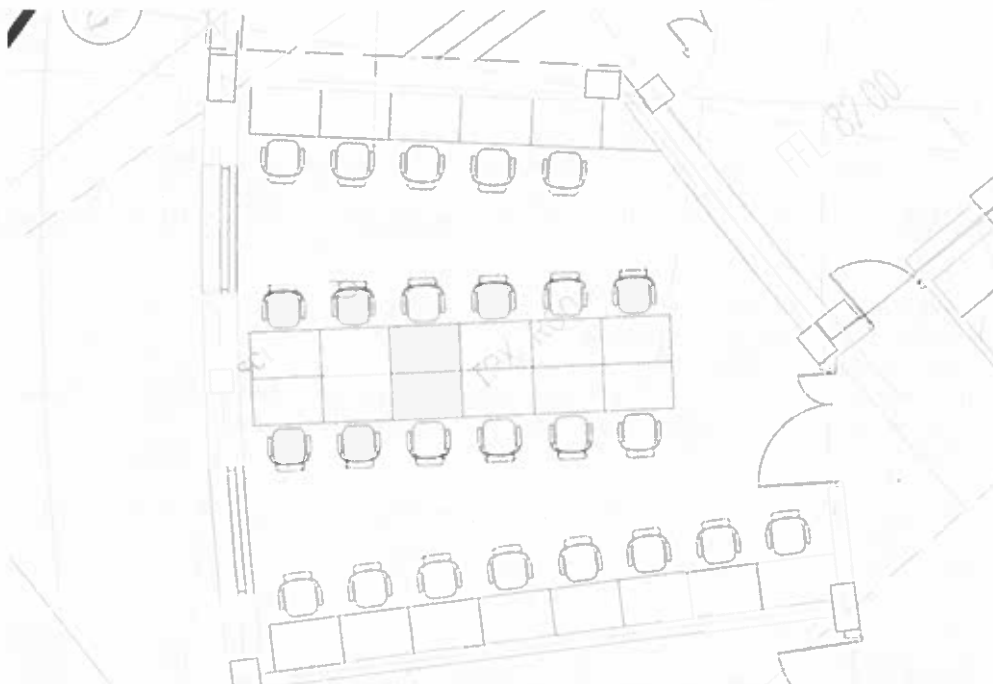
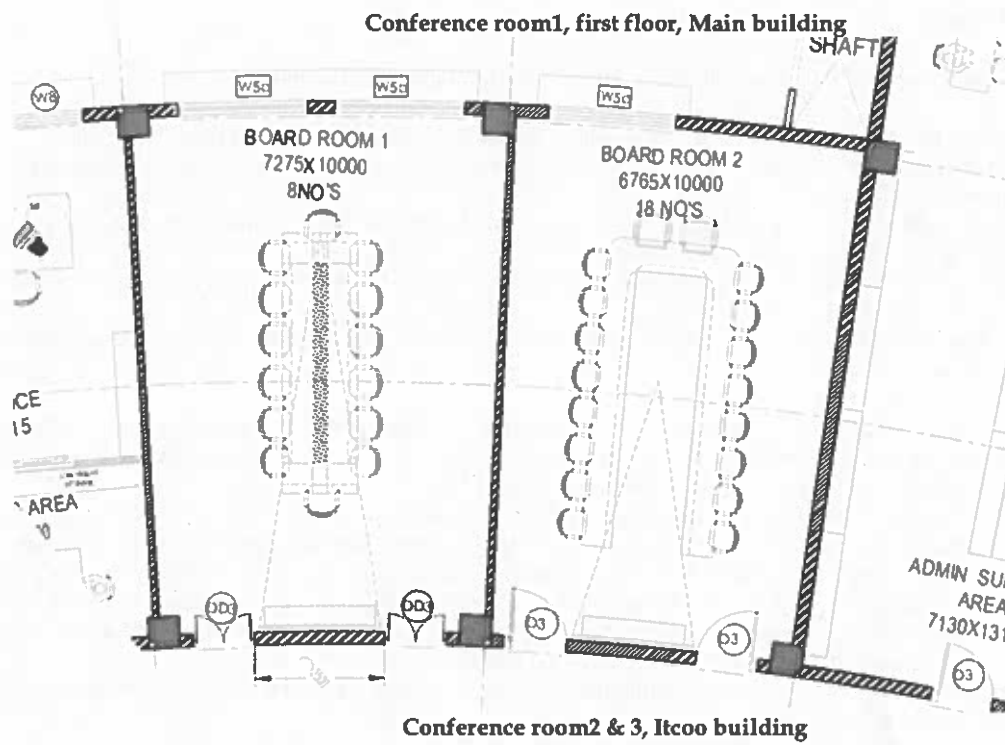


7.4 Schematic of the proposed upgradation for Conference Room1 & Conference Room 2, ITCOO Building:



Room layouts CAD Drawings:





TP room, Ground floor, Main building

7) Eligibility Criteria:

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

- 7.1 The tenderer must be a Company registered under Indian Company Act 1956 or a registered firm.
- 7.2 Tenderer should provide profile of their company including its infrastructure, technical manpower and their expertise.
- 7.3 Tenderer should provide an escalation matrix with full contact details, for the resolution of reported issues during the Warranty and support period.
- 7.4 The Tenderer should have a service/operational support centre in Hyderabad and proof of the same to be submitted.
- 7.5 The tenderer should have an average annual financial turnover of Rs. 2 Cr. or more during the last three years ending March 31, 2025. The bidding companies should be earning profit at least during two (02) years in the last three (03) years.
- 7.6 Tenderer should have relevant experience in Supply & Installation of meeting rooms with the functionality given in this tender document and should submit the copies of PO and the client certificate for the successful completion of the work as per the said PO.
- 7.7 Tenderer should have relevant past experience and should have successfully completed similar nature of works i.e., Supply & Installation of Meeting rooms with the functionality given in this tender document, in last three years ending previous day of last date of submission of the online Bid. Out of which one work of value Rs. 3.20 Cr. or two works each of value Rs.2.40 Cr. each or above or three works of value Rs.1.60 Cr each of above. Client certificate / Work Completion Certificate / Experience Certificate along with the PO No. as a reference to be enclosed in thus regard.
- 7.8 Tenderer should provide OEM authorization letters for all the bill of material with specific reference to this tender along with Product catalogues / data sheets of the items offered.
- 7.9 Earnest Money Deposit (EMD) as per section 8, Point No. 10.
- 7.10 Start ups: In order to promote make in India and startups, the prior turnover and prior experience for all startups shall be relaxed subject to their meeting of quality, technical specifications and tender conditions as per tender. The tenderer 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.

8) Contents of Bid:-

The quote should be submitted in two bid format. (i) Technical Bid and (ii) Commercial Bid

(i) Technical Bid: Technical bid should contain the information ONLY without which the offer will not be considered further.

- Proofs for Registration of company, PAN and GST certificates
- List of manpower and their expertise
- Escalation matrix with specific reference to this tender
- Documentary evidence to establish having service / operational support centre in Hyderabad
- Turnover and Annual Profit Certificate issued by the chartered accountant
- Relevant copies of POs and Client certificate to establish having relevant experience
- Client side Technical Contact details
- Willingness to demonstrate the similar solution when asked-for during technical evaluation
- MAF for all the bill of material
- Product catalogues / data sheets of all the bill of material
- Site visit attendance certificate duly signed by ICT member of INCOIS
- Proof for submission / exemption of EMD
- Proof for START UP
- Duly filled-in Technical Compliance statement given at Table-1 below
- Duly filled-in un-priced bid given at Table-2 below
- Duly filled-in and signed bid-security declaration form

NOTE:

- The documentary proof attached should be legible and relevant
- Offers without (i) the copy of relevant POs without the client certificate (ii) Client Certificate without

Signature, Date and Contact details of the client-side signatory (iii) site visit attendance certificate duly signed by ICT member of INCOIS (iv) duly filled-in Technical Compliance Statement (v) duly filled-in un-priced bid, will not be considered for further evaluation.

- Part/conditional/incomplete quotations will not be accepted.

Table 1: Technical Compliance Statement

S No	Description	Complied (Yes / No)	Legible and Relevant Documentary proof attached (Yes / No)
1.	Tenderer Name, Address, Email, Contact Number		
2.	Tenderer Bank Details		
	• Name of the Bank		
	• Branch address		
	• Account holder name		
	• Account number		
	• IFSC CODE		
	• PFMS Account No.		
3.	Tenderer's authorized Single Point of Contact for this tender		
4.	Proofs for Registration of company, PAN and GST certificates		
5.	List of manpower and their expertise		
6.	Escalation matrix with specific reference to this tender		
7.	Documentary evidence to establish having service / operational support centre in Hyderabad		
8.	Turnover and Annual Profit Certificate issued by the chartered accountant		
9.	Relevant copies of POs and Client certificate to establish having relevant experience		
10.	Client-side Technical Contact details		
11.	Willingness to demonstrate a similar solution when asked-for during technical evaluation		
12.	MAF for all the bill of material		
13.	A sheet giving details of Make and Model of the Bill of material offered		
14.	Product catalogues / data sheets of all the bill of material		
15.	Site visit attendance certificate duly signed by ICT member of INCOIS		
16.	Proof for submission / exemption of EMD		
17.	Proof for START UP		
18.	Duly filled-in Technical Compliance statement		
19.	Duly filled-in Un-Priced Bid		
20.	Duly filled-in and signed bid-security declaration form		
21.	Compliance to the Technical Requirements given at section 4		
22.	Compliance to the Technical Specifications given at section 5		

23	Compliance to the Scope of Work of this tender		
24	Compliance to the General Terms and Conditions of this tender		

Table-2: Un-Priced bid

S. No	Item	Qty	Please confirm whether prices are Quoted in commercial bid or not. (Yes / No) Please do not mention prices here.
Rooms wise price breakup			
1	TP Room Material with 1-year standard warranty	1 set	
2	Conference Room-1 Material with 1-year standard warranty	1 set	
3	Board Room Material with 1-year standard warranty	1 set	
4	Conference Room-2 Material with 1-year standard warranty	1 set	
5	Conference Room-3 Material with 1-year standard warranty	1 set	
6	72-seater E-Class Room Material with 1-year standard warranty	1 set	
7	HOD Cabins Material with 1-year standard warranty	1 set	
8	Miscellaneous Materials with 1-year standard warranty	1 set	
9	TP Room CAMC for 4 years		
9.1	2 nd year CAMC after 1-year onsite warranty	1	
9.2	3 rd year CAMC	1	
9.3	4 th year CAMC	1	
9.4	5 th year CAMC	1	
10	Conference Room-1 CAMC for 4 years		
10.1	2 nd year CAMC after 1-year onsite warranty	1	
10.2	3 rd year CAMC	1	
10.3	4 th year CAMC	1	
10.4	5 th year CAMC	1	
11	Board Room CAMC for 4 years		
11.1	2 nd year CAMC after 1-year onsite warranty	1	
11.2	3 rd year CAMC	1	
11.3	4 th year CAMC	1	
11.4	5 th year CAMC	1	
12	Conference Room-2 CAMC for 4 years		
12.1	2 nd year CAMC after 1-year onsite warranty	1	
12.2	3 rd year CAMC	1	
12.3	4 th year CAMC	1	
12.4	5 th year CAMC	1	
13	Conference Room-3 CAMC for 4 years		
13.1	2 nd year CAMC after 1-year onsite warranty	1	
13.2	3 rd year CAMC	1	

13.3	4 th year CAMC	1
13.4	5 th year CAMC	1
14	72 Seater E-Class Room CAMC for 4 years	
14.1	2 nd year CAMC after 1-year onsite warranty	1
14.2	3 rd year CAMC	1
14.3	4 th year CAMC	1
14.4	5 th year CAMC	1
15	HOD Cabins CAMC for 4 years	
15.1	2 nd year CAMC after 1-year onsite warranty	1
15.2	3 rd year CAMC	1
15.3	4 th year CAMC	1
15.4	5 th year CAMC	1
16	Miscellaneous CAMC for 4 years	
16.1	2 nd year CAMC after 1-year onsite warranty	1
16.2	3 rd year CAMC	1
16.3	4 th year CAMC	1
16.4	5 th year CAMC	1
	For All Rooms, Cabins, etc. mentioned above	
17	Any other items which are necessary to complete the rooms, cabins, etc but not mentioned above (*If quoted, details should be submitted in the technical bid)	1
18	Installation, Commissioning, Programming, Testing, and Training for S.No 1-8 above	1set

9) **Quality of Service:** During the warranty and CAMC period the successful bidder shall provide the following:

- Deploy trained manpower, so that the problems are rectified in shortest possible time. The deployed engineers should have experience in the relevant field in handling installation, integration & commissioning of AV systems.
- Make sure that the reported issues are resolved within 72 hrs from the time of reporting. The faulty system / peripheral is not repaired or replaced with similar / higher configuration brand new system / peripheral of same make and duly accepted by INCOIS with-in 72 hrs from the time of reporting. In case, if un-resolved with-in stipulated time, INCOIS shall get the issues resolved through alternative means at the risk and cost of the successful tenderer and that this step should not have any implications on the already agreed support for the systems / peripherals provided.
- Responsible for replacing any defective part / parts (consumable / non-consumable), updating the firmware, software released by OEM from time to time, without any extra cost to INCOIS during the warranty and the CAMC period.
- Do preventive maintenance at least once in every 3 months and shall submit the service report to INCOIS.
- Shall attend to emergency breakdown calls at short notices. There will be no restrictions on no of breakdown maintenance visits during the warranty and the CAMC period.

Penalty during SITC: In case the supply/delivery/services are delayed and if the delay is attributable to the successful tenderer OR if the offered material / service is not as per the tender specifications OR in the event of breach of any of the terms and conditions mentioned in the Purchase Order, INCOIS shall have the right.

- 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
- To purchase elsewhere, on the risk and cost of the defaulting supplier
- To forfeit the security deposit full or in part

Penalty During CAMC: The reported and un-resolved problem with-in 72 hours will be considered as an instance. During the warranty and support period of five years, 10 such instances will lead to forfeiture of PBG.

10) General Terms and Conditions: -

Point No.	Details
1.	Quotation: Bidders shall submit their offers online via the Government E Marketplace at http://gem.gov.in . before the bid submission date.
2.	* 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 15 days, then PO would be deemed as accepted and binding to the successful bidder.
3.	Delivery Period : Within 12-15 weeks from the date of acceptance of the purchase order
4.	Warranty Period: 1 year warranty and 4 years CAMC from the date of installation, commissioning & acceptance of the system
5.	<p>Payment terms:</p> <p>90% of payment for SI Nos. 1 to 8 (Table 2 – Unpriced bid) (pertaining to supply, installation with a warranty of one year) will be released upon successful supply, acceptance, installation & commissioning of materials defined under the scope of work.</p> <p>10% of payment will be released after successful completion of 1 year warranty or on submission of Advance Bank Guarantee (ABG) for the said amount and period .For SI Nos. 9 to 16 (Table 2 – Un priced bid) - The CAMC value will be released in quarterly upon submission of invoice and satisfactory service reports duly signed by the vendor.</p> <p><i>Net payment will be released after statutory deductions. No advance payment will be allowed, and noother payment terms will be considered.</i></p>
6.	<p>Earnest Money Deposit (EMD): Rs.8,00,000/- (Rupees eighty lakh only) has to be submitted by way of Demand Draft/RTGS from any Nationalized Bank in favour of "Director, INCOIS payable at Hyderabad". The Scanned copy of the Demand Draft/RTGS/ Bank Guarantee/FDR /Insurance Surety Bond is to be uploaded to the GeM Portal while submitting the offer. Bank Guarantees/Counter Guarantees should be obtained from any of the Nationalized/schedule bank of India with a validity of 6 months from the closing of the bid due date and should be sent by the issuing banker directly to the office of INCOIS, Hyderabad.</p> <p><i>The original DDs/ Financial Instruments if any should reach to INCOIS on or before 14:00 Hrs of 03/09/2025 ie., before closing of the bid submission date. Offers received without EMD & bid securing declaration as per Annexure-2 will be summarily rejected. (RTGS details: Name of the Bank: SBI, HAL campus Branch; Account Name: Director, INCOIS; A/c No. 10442322840; IFSC Code: SBIN0001676)</i></p> <p>Indian Vendors registered with Ministry of Micro Small Enterprises (MSE) /National Small Scale Industries Corporation (NSIC) are exempted from payment of EMD. A copy of valid registration certificate should be submitted along with bid securing declaration to be submitted on the bidding firm's letter head duly signed and stamped by the authorized signatory as per Annexure.</p>
7.	<p>Penalty Clause:</p> <p>Successful bidder should make sure that the reported issues are to be attended immediately and should be resolved within 72hrs (3-Days) from the time of call reporting from INCOIS. If any Software / Hardware system/peripheral fails and not replaced with similar/higher configuration system/peripheral of same make and duly accepted by INCOIS with-in 72hrs from the time of reporting, it will be considered as an Instance.</p> <p>During the warranty period of 1 year, three such instances will attract a penalty of 10% of Performance Guarantee (PG) value. More than three such occasions will lead to forfeiture of total PG amount. If the successful bidder fails to resolve the reported issues with-in 72hrs, INCOIS will take up alternative measures for resolving the issues at the 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>
8.	Defect Liability Period: 5 year warranty period ensuring equipment performance post-commissioning and acceptance.
9.	Bidder's from a country which shares a land border with India will be eligible to participate in this

	tender, only if the bidder is registered with Department for Promotion of Industry and Internal Trade (DPIIT) under Order (Public procurement No. 1) issued by Ministry of Finance, Department of Expenditure in line with OM No. F.No.6/18/2019-PPD dt 23rd July, 2020 and F.18/37/2020-PPD, dt. 08.02.2021 inserting Rule 144 (xi) in GFR 2017.
10.	Start ups: In order to promote make in India and startups, the prior turnover and prior experience for all startups shall be relaxed subject to their meeting of quality, technical specifications and tender conditions as per tender. The bidder who intends to participate as "start up" company should enclose the certificate towards startup enterprise registration/recognition issued by Department of Industrial Policy and Promotion, Ministry of Commerce and the certificate should be certified by the Chartered Accountant or should be registered with GeM as startup. Applicable certificate should be enclosed.
11.	Performance Deposit: In case of placement of CAMC order, Successful bidder has to submit 05% of the order value towards Performance Deposit by means of Demand Draft drawn in favor of Director, INCOIS payable at Hyderabad or Bank Guarantee from any Nationalized Bank valid for up to 60 days beyond the CAMC period. This deposit will be free of interest and is refundable after the satisfactory execution of the contract and complete fulfilment of contractual obligations
12.	Performance Deposit is liable to forfeiture in the event of : a. Non Execution order during validity period of the contract b. If the service of the successful bidder is found to be unsatisfactory and fails to adhere to our tender terms and conditions. c. Any unilateral revision made by the successful bidder during the validity period of the contract.
13.	GST: The bidder should specifically/particularly state GST if any applicable as extra and the rate at which the same is chargeable, failing which, the prices quoted, will be deemed to be inclusive of such levies. If a particular bidder is not registered under the GST Act, the prices quoted by him will be treated as net and inclusive of all taxes and statutory levies and that any future claims made by him for reimbursement of those levies on account of retrospective registration under the GST Act will under no circumstances be entertained by the INCOIS and that liability for payment of these levies will be wholly and exclusively that of the bidder quoting against our tender.
14.	Successful bidder has to submit the Service level Agreement in prescribed format on Indian non-judicial stamp paper worth Rs.200/- duly signed by authorized signatory within 30 days of receipt of order.
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 Techno-Commercial bid. Offers received without the compliance sheet will be summarily rejected.
17.	Tenders not in complete shape or not conforming to technical specifications or not conforming to terms and conditions are liable for rejection. All above relevant documents must be enclosed with technical bids failing which bids may be ignored and will not be considered for technical evaluation.
18.	Before submitting the bid 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 labor. 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 Bidder(s) contractor(s) for any sort of compensation
19.	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
20.	Any deviations technically or commercially should be clearly indicated in the Technical bid offer only.
21.	If any loss or damage is caused to INCOIS property by workmen deployed by the successful bidder, the cost of the same will be recovered from the agency/contractor
22.	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
23.	The Contractor shall ensure safety and security of all workforce employed for this work and equipment provided by him under the Contractor until all the works entrusted are completed in all respects and taken over by INCOIS. In the event of damages except under force majeure clause ie., fire, wind, rain, floods or through any hazards, pilferage, other natural calamities etc., the Contractor shall make good the damaged works and restore the same to the original condition without any additional cost.
24.	<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.
25.	<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 on out-break of hostilities, declaration of an embargo's or blockage or fire flood, acts of nature or any other contingency , pandemic declared by WHO/Govt. authorities causing stoppage of work beyond the supplier's /INCOIS control, Director, INCOIS may allow such additional time by extending the delivery period as he considers to be justified by the circumstances of the case and his decision shall be final, conclusive and binding. If and when additional time is granted by the INCOIS, the contract/supply shall be read and understood as if it had contained from its inception the delivery date as extended.</p>
26.	If any Bidders withdraws his tender after price bid is opened, within 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.	The bidder shall sign and upload the Bids with the exact name and address of the firm, which is bidding for the tendered requirement.
28.	The Bids shall be uploaded only after signed by a duly authorized officer of the firm which is bidding for the tendered requirement, and in the case of a Corporation, seal, or otherwise appropriately executed under seal.
29.	The acceptance of tender will solely rest with Director, INCOIS who does not bind himself to accept the lowest or any other tender. No reasons will be furnished for acceptance or rejection of any tender.
30.	Director, INCOIS reserves the right to cancel the tender at any stage due to any technical /administrative reasons. The bidder shall not have any claim under whatsoever reasons.
31.	Canvassing in connection with tender is strictly prohibited and any canvassing will render the bid of such Bidders ineligible.
32.	INCOIS reserves the right to alter the scope/or reduce quantum of work, before/after issue of work order and Bidders shall not have any claim whatsoever on this account.
33.	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.

2. **Pre-Bid Proposal Meeting:** 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 Document before submitting their Proposal, a Pre-bid meeting will be held at INCOIS, Hyderabad on August 07, 2025 at 11 00 hrs. During the pre-bid meet, a brief presentation will be done by INCOIS on the Bid requirement. All the clarifications will be consolidated and clarified to the vendors during the pre-bid meet and addendum/corrigendum will be added in the proposal INCOIS Web site (if required only). Vendor will be given another reasonable sufficient time to submit their proposals. The bidders should participate in this meeting at their own cost. Bidders are requested to send their clarifications, if any well in advance of the Pre-proposal meeting.

11) Contact/Details: -

For clarifications related to tender, please contact on or before 15:00 Hrs of 04.08.2025.

Shri Nageswara Rao, Head-ESS, INCOIS

email: nag@incois.gov.in

Tel: 040-23886024

Fax: 040-23892910

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 Establishment / Augmentation of AV facilities at INCOIS with 01-year Warranty and 4 years CAMC"

Signature of the Tenderer/Authorized Signatory & date

Name

OFFICE SEAL,

Address

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

BID-SECURING DECLARATION FORM

Bid No. INCOIS: PUR: 82/2024 date 24.07.2024 "Establishment / Augmentation of AV facilities at INCOIS with 01-year-Warranty and 4-years CAMC"

To
The Director
Indian National Centre for Ocean Information Services (INCOIS),
Ministry of Earth Sciences, Govt. of India,
"Ocean Valley", Pragathi Nagar (BO),
Nizampet (SO), Hyderabad - 500 090,

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

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

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

Dated on _____ day of _____

Signature of the Tenderer/Authorised Signatory & date

Name of the authorized signatory:

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)

Annexure-1**Detailed price breakup for all rooms / material**

S. No	Item	Qty	Please confirm whether prices are Quoted in commercial bid or not. (Yes / No) Please do not mention prices here.
Individual price breakup			
TP Room Material with 1-year standard warranty			
1	75" Professional 4K UHD LED Display with High Brightness along with Wall Mount Kit	2 Nos	
2	15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment with control buttons	1	
3	Teams & IP dialing based Video Codec	1	
4	Mini PC including i7, 12GB RAM, 500 GB SSD/NVMe, windows 11, antivirus along with wireless keyboard and mouse.	1	
5	PTZ Video Camera- 20X Optical Zoom	1	
6	Digital Signal Processor with Dante, AEC, VoIP, Telco & USB Audio	1	
7	Ceiling Tile Microphone array with 360 degree coverage	1	
8	In-Ceiling Speakers	4	
9	Modular Type 8x8 4K HDMI Seamless Matrix Switcher with future upgradation up to 16x16 HDMI in and out ports	1	
10	Touch Panel for Room AV control	1	
11	Control system with serial, relays, I/O, IR, and Ethernet control ports	1	
12	8 Channel Relay Controller	1	
13	Multi-Stage Protection Power Conditioner	1	
14	Wireless Access Point	1	
15	16 Port PoE+ Smart Managed Ethernet Switch	1	
16	USB Switcher	1	
17	1x2 HDMI Distribution Amplifier	1	
18	1x4 HDMI Distribution Amplifier	1	
19	AV Equipment Rack	1	
20	Cable Management System	5	
21	Professional Studio Video Conference Lightings	10	
22	Professional articulating display Manager for Managing of 2 No's of 75" Displays, Cameras and stereo speakers	1	
23	Required Cables, Connectors & Accessories	1 set	
24	Table re-conditioning, repairing and filling of existing cut-outs, re-veneering of top with PVC Veneer.	1set	
25	Acoustic Paneling to be installed on inner side of room elevations	1 No.	
26	Carpeting as per the room dimensions	1 No.	
Conference Room-1 Material with 1-year standard warranty			
1	for 65" Professional 4K UHD LED Display with High Brightness along with Wall Mount Kit	2 Nos	

2	15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment with control buttons	1
3	Teams & IP dialing based Video Codec	1
4	Mini PC including i7, 12GB RAM, 500 GB SSD/NVMe, windows 11, antivirus along with wireless keyboard and mouse.	1
5	PTZ Video Camera- 20X Optical Zoom	1
6	Digital Signal Processor with Dante, AEC, VoIP, Telco & USB Audio	1
7	Ceiling Tile Microphone array with 360 degree coverage	1
8	In-Ceiling Speakers	4
9	Modular Type 8x8 4K HDMI Seamless Matrix Switcher with future upgradation up to 16x16 HDMI in and out ports	1
10	Touch Panel for Room AV control	1
11	Control system with serial, relays, I/O, IR, and Ethernet control ports	1
12	8 Channel Relay Controller	1
13	8 Channel Digital I/O Module	1
14	Multi-Stage Protection Power Conditioner	1
15	Wireless Access Point	1
16	16 Port PoE+ Smart Managed Ethernet Switch	1
17	USB Switcher	1
18	7 port hub	1
19	1x2 HDMI Distribution Amplifier	1
20	1x4 HDMI Distribution Amplifier	1
21	AV Equipment Rack	1
22	Cable Management System	3
23	Professional Studio Video Conference Lightings	10
24	Professional articulating display Manager for Managing of 2 No's of 65" Displays, Cameras and stereo speakers	1
25	Table re-conditioning, repairing and filling of existing cut-outs, re-veneering of top with PVC Veneer.	1set
26	Required Cables, Connectors & Accessories	1 set
27	Carpeting as per the room dimensions	No.
Board Room Material with 1-year standard warranty		
1	15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment with control buttons	7
2	Teams & IP dialing based Video Codec	2
3	Mini PC including i7, 12GB RAM, 500 GB SSD/NVMe, windows 11, antivirus along with wireless keyboard and mouse.	1
4	PTZ Video Camera- 20X Optical Zoom	1
5	Digital Signal Processor with Dante, AEC, VoIP, Telco & USB Audio	1
6	Ceiling Tile Microphone array with 360 degree coverage	3
7	In-Ceiling Speakers	8
8	Touch Panel for Room AV control	1

9	Control system with serial, relays, I/O, IR, and Ethernet control ports	1
10	8 Channel Relay Controller	1
11	8 Channel Digital I/O Module	1
12	Multi-Stage Protection Power Conditioner	1
13	Wireless Access Point	1
14	16 Port PoE+ Smart Managed Ethernet Switch	1
15	USB Switcher	1
16	1x2 HDMI Distribution Amplifier	1
17	1x4 HDMI Distribution Amplifier	1
18	Cable Management System	10
19	Professional articulating display Manager for Managing of 1 No's of 65" Displays, Cameras and stereo speakers	2
20	Professional articulating display Manager for Managing of 2 No's of 65" Displays, Cameras and stereo speakers	1
21	Required Cables, Connectors & Accessories	1 set
Conference Room-2 Material with 1-year standard warranty		
1	75" Professional 4K UHD LED Display with High Brightness along with Wall Mount Kit	2 Nos
2	15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment with control buttons	7
3	Teams & IP dialing based Video Codec	1
4	Mini PC including i7, 12GB RAM, 500 GB SSD/NVMe, windows 11, antivirus along with wireless keyboard and mouse.	1
5	PTZ Video Camera- 20X Optical Zoom	1
6	Digital Signal Processor with Dante, AEC, VoIP, Telco & USB Audio	1
7	Ceiling Tile Microphone array with 360 degree coverage	1
8	In-Ceiling Speakers	4
9	Modular Type 8x8 4K HDMI Seamless Matrix Switcher with future upgradation up to 16x16 HDMI in and out ports	1
10	Touch Panel for Room AV control	1
11	Control system with serial, relays, I/O, IR, and Ethernet control ports	1
12	8 Channel Relay Controller	1
13	8 Channel Digital I/O Module	1
14	Multi-Stage Protection Power Conditioner	1
15	Wireless Access Point	1
16	16 Port PoE+ Smart Managed Ethernet Switch	1
17	USB Switcher	1
18	7 port hub	1
19	1x2 HDMI Distribution Amplifier	1
20	1x4 HDMI Distribution Amplifier	1
21	AV Equipment Rack	1
22	Cable Management System	3
23	Professional articulating display Manager for Managing of 2	1

	No's of 75" Displays, Cameras and stereo speakers	
24	Required Cables, Connectors & Accessories	1 set
25	Carpeting as per the room dimensions	No.
Conference Room-3 Material with 1-year standard warranty		
1	75" Professional 4K UHD LED Display with High Brightness along with Wall Mount Kit	2 Nos
2	15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment with control buttons	7
3	Teams & IP dialing based Video Codec	1
4	Mini PC including i7, 12GB RAM, 500 GB SSD/NVMe, windows 11, antivirus along with wireless keyboard and mouse.	1
5	PTZ Video Camera- 20X Optical Zoom	1
6	Digital Signal Processor with Dante, AEC, VoIP, Telco & USB Audio	1
7	Ceiling Tile Microphone array with 360 degree coverage	1
8	In-Ceiling Speakers	4
9	Modular Type 8x8 4K HDMI Seamless Matrix Switcher with future upgradation up to 16x16 HDMI in and out ports	1
10	Touch Panel for Room AV control	1
11	Control system with serial, relays, I/O, IR, and Ethernet control ports	1
12	8 Channel Relay Controller	1
13	8 Channel Digital I/O Module	1
14	Multi-Stage Protection Power Conditioner	1
15	Wireless Access Point	1
16	16 Port PoE+ Smart Managed Ethernet Switch	1
17	USB Switcher	1
18	7 port hub	1
19	1x2 HDMI Distribution Amplifier	1
20	1x4 HDMI Distribution Amplifier	1
21	AV Equipment Rack	1
22	Cable Management System	3
23	Professional articulating display Manager for Managing of 2 No's of 75" Displays, Cameras and stereo speakers	1
24	Required Cables, Connectors & Accessories	1 set
25	Carpeting as per the room dimensions	No.
72-seater E-Class Room Material with 1-year standard warranty		
1	15.6" full HD touch, embedded in the table ultra slim monitor with manual +/- tilt adjustment	12 Nos.
2	7 port Hub	2
3	1x4 HDMI Distribution Amplifier	2
4	Required Cables, Connectors & Accessories	1 set
HOD Cabins Material with 1-year standard warranty		
1	55" Professional 4K UHD LED Display with High Brightness along with Wall Mount Kit with 10m HDMI cable	11 Nos.
2	Required Cables, Connectors & Accessories	1 set

Miscellaneous Materials with 1-year standard warranty			
1	LCD Laser Projectors along with mounting material (for Old 48 pax E-Classroom, main building)	2	
2	Room Scheduler along with PoE Injectors	4	
3	16 Port PoE+ Smart Managed Ethernet Switch	10	
4	USB-C Hub for Mac & Windows USB-C Devices	9	
5	Required Cables, Connectors & Accessories	1 set	
For All Rooms, Cabins, etc. mentioned above			
1	Any other items which are necessary to complete the rooms, cabins, etc but not mentioned above (*If quoted, details should be submitted in the technical bid)	1	