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Telephone: [044] 2257 9763 E-mail: tender@imail.iitm.ac.in

The Manager (Project Purchase)

Open Tender Reference No: OE/MURA/129/2023/SOLIDSTATERDR

GEM NAR ID: GEM/GARPTS/21062023/UECQXUFBLUEO

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, Tenders are invited in two bid system from Class-I local suppliers and Class II local suppliers, for the supply of: "Solid State (X-Band) RADAR " Conforming to the specifications given in Annexure -A.

Tender Documents may be downloaded from Central Public Procurement Portal <u>https://etenders.gov.in/eprocure/app</u>. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website <u>https://etenders.gov.in/eprocure/app</u>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at **"Help for contractors"**. [Special Instructions to the Contractors/Bidders for the e-submission of the bids online through this eProcurement Portal"]

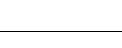
Bidders can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type 'IIT'. Thereafter, click on "GO" button to view all IIT Madras tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <u>https://etenders.gov.in/eprocure/app</u> as per the schedule attached.

<u>1)</u>	Pre-bid Meeting Details	••	NA
<u>2)</u>	ICSR Vendor Registration	•	 <u>Vendor registration code</u>. Vendor registration with IC&SR (IITM) is mandatory for bidders to participate in tenders. ** For Vendor Registration & Guidelines, Please follow the website :
			https://icandsr.iitm.ac.in/vendorportal; Helpdesk: <u>vendorhelpdesk@icsrpis.iitm.ac.in</u>

<u>No manual bids will be accepted.</u> All tender documents including Technical and Financial bids should be submitted in the E-procurement portal.

Last date for receipt of tender	:	12.07.2023 @ 3:00 PM
Date & time of opening of tender	:	13.07.2023 @ 3:00 PM





Date: 22.06.2023

Due Date/Time: 12.07.2023@ 3:00 PM

<u>3. Instructions to the Bidder:</u>

<u>A)</u>	Searching for tender documents	:	• There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.
			• Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective "My Tender" folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document.
			• The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.
<u>B)</u>	Assistance to bidders	:	 Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is [0120-4200462, 0120-4001002, 0120-4001005]
<u>C)</u>	Enrollment Process to Bidders	:	 REGISTRATION Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal URL:https://etenders.gov.in/eprocure/app by clicking on "Online Bidder Enrollment". Enrollment on the CPP Portal is free of charge. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse. Bidder then may log in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken. Possession of a Valid Class II/III Digital Signature Certificate

			 (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through https://etenders.gov.in/eprocure/app Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://etenders.gov.in/eprocure/app under the "Information about DSC".
<u>D)</u>	Preparation of bids	•	Bidder should take into account any corrigendum published on the tender document before submitting their bids.
		•	Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
		•	Bidder, in advance, should prepare the bid documents to be submitted as indicated in the tender document / schedule and generally shall be in PDF / XLS formats as the case may be. Bid documents may be scanned with 100 dpi with black and white option. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, GSTIN Details, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Documents " area available to them to upload such documents. These documents may be directly submitted from the "My Documents " area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.
<u>E)</u>	Submission of bids	•	Bidder should log into the site well in advance for bid submission so that he/she can upload the bid in time i.e. on or before the bid submission date and time. Bidder will be responsible for any delay due to other issues.
		•	The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
		•	Bidder has to select the bid security declaration. Otherwise, the tender will be summarily rejected.
		•	A standard BOQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BOQ file, open it and complete the detail with their respective financial quotes and other details (such as name of the bidder). If the BOQ file is found to be modified by the bidder, the bid will be rejected.
		•	The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The

		bidders should follow this time during bid submission.
		• The Tender Inviting Authority (TIA) will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders due to local issues.
		• The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
		• Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
		 Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet. More information useful for submitting online bids on the CPP Portal may be obtained at: <u>https://etenders.gov.in/eprocure/app</u>. All tender documents including pre-qualification bid, Technical Bid &Financial Bid should be submitted separately in online CPP portal as per the specified format only. Right is reserved to ignore any tender which fails to comply with the above instructions. No manual bid submission will be entertained.
<u>F)</u>	Marking on Technical Bid	• The bidder eligibility criteria, technical specification and supply of item for this tender is given in Annexure A.
		• The Bidders shall go through the specification and submit the technical bid.
		• The Technical bid should be submitted in the proforma as per Annexure-B in pdf format only through online (e-tender). No manual submission of bid will be entertained.
		• The technical bid should have a page-wise heading as "Technical Bid" and page no. in all pages with seal and signature of authorized signatory. The total no. of pages should be mentioned at the last page of the documents.
		• The technical bid should consist of bidder eligibility criteria details and all technical details along with catalogue/ pamphlet which will give a detailed description of product with technical data sheet so that technical compliance can be verified.
<u>G</u>)	Marking on Price Bid	• Financial bid (BoQ) should be submitted in the prescribed proforma format as per Annexure-C in xls format through e-tender only. No manual or other form of submission of Financial Bid will not be entertained

4)	Preparation of Tender: The bidders should submit the bids in two bid system as detailed below.			
	Bid I _Technical Bid			
	The technical bid should consist of bidder eligibility criteria and technical specification compliance sheet as per Annexure-B.			
	Bid II _Price Bid			
	The price bid should be submitted in excel format (BoQ) as per the proforma (Annexure C) uploaded in the e-Tender web site. The Quoted price should be for supply and installation of the item and inclusive of all cost and statutory levies at IIT Madras.			
5)	Price:			
	a) The price should be quoted only in INR net per unit (after breakup) and must include all packing, transit insurance and delivery charges to the NTCPWC, IITM.			
	b) The rate quoted shall be all inclusive of all taxes and no extra payment will be made other than statutory revisions as per the terms and conditions stipulated in this contract document.			
	c) The percentage of tax & duties should be clearly indicated separately. IIT Madras is eligible for custom duty (5.5%). Relevant certificates will be issued wherever necessary.			
	 d) The offer/bids should be submitted through online only in two bid system i.e. Technical Bid and Financial Bid separately. 			
6)	Tenderer shall submit along with this tender:			
	(i) Proof of having ISO or other equivalent certification given by appropriate authorities.			
	(ii) Name and full address of the Banker and their swift code and PAN No. and GSTIN number.			
	(iii) GST registration proof showing registration number, area of registration etc.			
	(iv) All of your future correspondences including Invoices should bear the GST No. and Area Code.			
7)	Terms of Delivery:			
	Supplier will be fully responsible for the safe carriage, Installation/Commissioning of goods up to the V.O.Chidambaranar Port Authority, Tuticorin 628 004, or named place as per PO, Insurance coverage will be in the scope of the supplier.			
	The tenderer should indicate clearly the time required for delivery of the item (subject to the approval of the Executive Committee-IIT-Madras). In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.			
	In the event of delay or non-supply of materials/execution of Contract beyond the date of delivery/completion of job. The penalty will be levied @1% per week of delay subject to a max of 10% of the value of purchase order and if the delay is more than accepted time frame by IIT M, the PO would be partially or fully cancelled and liquidated damages will be enforced accordingly.			
8)	Period for which the offer will remain open:			
	The Tender shall remain open for acceptance/validity till: 120 days from the date of opening of the tender. However, the day up to which the offer is to remain open being declared closed holiday for the Indian Institute of Technology Madras, the offer shall remain open for acceptance till the next working day.			
9)	EMD: The EMD of Rs.4,00,000 to be transferred to the account details mentioned in Annexure G and proof should be enclosed in the Technical Bid. Any offer not accompanied with the EMD shall be rejected summarily as non-responsive.			

	The EMD of the unsuccessful bidders shall be returned within 30 days of the end of the bid validity period. The same shall be forfeited, if the tenderers withdraw their offer after the opening during the bid validity period. The Institute shall not be liable for payment of any interest on EMD.
	EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) and Startups as recognized by Department of Industrial Policy & Promotion (DIPP). (MSE/MSME/DIPP PROOF should be enclosed in the cover containing technical bid)
10)	Performance Security: -
	The successful bidder should submit Performance Security for an amount of 3% of the value of the contract/supply. The Performance Security may be furnished in the form of an Account Payee DD, FD Receipt in the name of "The Registrar, IIT Madras" from any scheduled commercial bank or Bank Guarantee from any scheduled commercial bank in India. The performance security should be furnished within 14 days from the date of the purchase order.
	Performance Security in the form of Bank Guarantee: - In case the successful bidder wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed directly to IIT Madras from the Bank.
	The Bank Guarantee should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including the warranty obligations.
11)	For the same tender, either the OEM or the authorized dealer/service provider can only quote. But both of them cannot quote separately for the same tender.
12)	The offers/bids should be sent only for a item/Equipments of latest version that is available in the market and supplied to a number of customers. A list of customers in India with details must accompany the quotations. Quotations for a prototype machine will not be accepted
13)	Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid.
14)	Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal/OEM.
15)	Risk Purchase Clause
	In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.
16)	Payment:
	(i) No Advance payment will be made. However, 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved.
	(ii) Advance Payment: No advance payment is generally admissible. In case a specific percentage of advance payment is required, the Vendor has to submit a Bank Guarantee from a scheduled commercial bank in India equivalent to the amount of advance payment.
17)	On-site Installation:
	The equipment/item or Machinery has to be installed or commissioned by the successful bidder within the number of days (as prescribed by PI) from the date of receipt of the item at the site of IIT Madras.
18)	Warranty/Guarantee:
	The offer should clearly specify the warranty or guarantee period for the machinery/equipment. Any extended warranty offered for the same has to be mentioned separately (For more details please refer our Technical Specifications).
	** Note: PO which involves installation, warranty/guarantee shall be applicable from date of

	installation.
19)	Acceptance and Rejection:
	Failure to comply with any of the instructions stated in this document or offering unsatisfactory explanations for non-compliance will likely to lead to rejection of offers.
	I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
20)	Debarment from Bidding:
	In case of breach of Terms & Conditions, Bidder may be suspended from being eligible for bidding in any contract with the IIT Madras up to 2 Years [as per Rule 151(iii) of GFR] from the date of Tender.
21)	Disputes and Jurisdiction:
	 Settlement of Disputes: Any dispute, controversy or claim arising out of or in connection with this PO including any question regarding its existence, validity, breach or termination, shall in the first instance be attempted to be resolved amicably by both the Parties. If attempts for such amicable resolution fails or no decision is reached within 30 days whichever is earlier, then such disputes shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996. Unless the Parties agree on a sole arbitrator, within 30 days from the receipt of a written request by one Party from the other Party to so agree, the arbitral panel shall comprise of three arbitrators. In that event, the supplier will nominate one arbitrator and the Project Coordinator of IITM shall nominate on arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceeding shall be carried out in English language. The cost of arbitration and fees of the arbitrator(s) shall be shared equally by the Parties. The seat of arbitration shall be at IC&SR IIT Madras, Chennai. a. The Applicable Law: The Purchase Order shall be construed, interpreted and governed by the Laws of India. Court at Chennai shall have exclusive jurisdiction subject to the arbitration clause.
	b. Any legal disputes arising out of any breach of contact pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.
22)	Force Majeure: The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
	For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
	If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
23)	Eligibility Criteria:
	As per the Government of India Order, only "Class - I Local Suppliers" and "Class - II Local Suppliers" <u>can participate in this tender.</u>
	Bidder should confirm their acceptance that they comply with the provisions with report to "Guidelines for eligibility of a bidder from a country which shares a land border with India as detailed at Annexure-E. The bidder should submit Certificate for "Bidder from/ Not from Country sharing Land border with India & Registration of Bidder with Competent Authority" as per Order of DoE F.No.6/18/2019-PPD dated 23.07.2020 as mentioned.

24)	Preference to "class I Local Suppliers": preference will be given to "class 1 local suppliers" (subject
24)	to class -I local supplier's quoted price falling within the margin of purchase preference) as per public
	procurement (preference to make in India) order 2017 .O.M No P- 45021/2/2017 – pp(BE - 11) dt
	04/06/2020 subject to the conditions that the "class 1 Local Supplier" should agree to supply goods /
	provide service at L1 rate and furnish a certificate with the technical bid document that the
	goods/service provided by them consists local content equal to or more than 50%.(certificate from
	Chartered Accountant in case value of contract exceeds Rs 10 crore).
	 Class - I local supplier' means a supplier or service provider whose goods, services or works
	offered for procurement consists of local content equal to or more than 50% as defined under the
	above said order. Declaration to be provided as per Annexure-D per item/service/work.
	 Class - II local supplier' means a supplier or service provider whose goods, services or works
	offered for procurement consists of local content equal to 20% but less than 50% as defined under
	the above said order. Declaration to be provided as per Annexure-D per item/service/work.
	 'Margin of purchase preference': - The margin of purchase preference shall be 20%. The
	Definition of the margin of purchase preference is defined in the Govt. of India Order No: P-
	45021/12/2017-PP (BE-II) Dt.4th June, 2020) Order 2017. As per the Government of India
	Order – "Margin of Purchase Preference" means the maximum extent to which the price
	quoted by a "Class-I local supplier" may be above the L1 for the purpose of purchase
	preference.
	**Note: Local content percentage to be calculated in accordance with the definition provided at
	clause 2 of revised public procurement preference to Make in India Policy vide GoI Order no. P-
	45021/2/2017-PP (B.EII) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P-
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	45021/102/2019-BE-II-Part(1) (E-50310) Dt.4th March 2021
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26) 27)	 45021/102/2019-BE-II-Part(1) (E-50310) Dt.4th March 2021 Evaluation of Bids Bid evaluation will take place in two stages. Stage I Technical Bid evaluation All bidders who have fully complied with bidder eligibility criteria I,II and technical evaluation (Annexure A) will only be considered for opening of price bid. Stage II: Price Bid Evaluation The price Bid Evaluation The price bid evaluation will be based on price quoted by the bidder. The rate quoted for Solid State (X-Band) RADAR unit will alone be taken up for arrival of Lowest Bid (L1) value. Selection of successful bidder and Award of Order The order will be directly awarded to the technically qualified bidder as per the condition in para 3A of DIPP, MoCI Order No. 45021/2/2017-PP (BE II) dated 16th September 2020. All information including selection and rejection of technical or financial bids of the prospective bidders will be communicated through e-Tender portal. In terms of Rule 173(iv) of General Financial Rule 2017, the bidder shall be at liberty to question the bidding conditions, bidding process and/or rejection of bids. The tenderer shall certify that the tender document submitted by him / her are of the same replica of the tender document as published by IIT Madras and no corrections, additions and alterations made to the same. If any deviation found in the same at any stage and date, the bid / contract will be rejected /
26) 27) 28)	 45021/102/2019-BE-II-Part(1) (E-50310) Dt.4th March 2021 Evaluation of Bids Bid evaluation will take place in two stages. Stage I Technical Bid evaluation All bidders who have fully complied with bidder eligibility criteria I,II and technical evaluation (Annexure A) will only be considered for opening of price bid. Stage II: Price Bid Evaluation The price bid evaluation will be based on price quoted by the bidder. The rate quoted for Solid State (X-Band) RADAR unit will alone be taken up for arrival of Lowest Bid (L1) value. Selection of successful bidder and Award of Order The order will be directly awarded to the technically qualified bidder as per the condition in para 3A of DIPP, MoCI Order No. 45021/2/2017-PP (BE II) dated 16th September 2020. All information including selection and rejection of technical or financial bids of the prospective bidders will be communicated through e-Tender portal. In terms of Rule 173(iv) of General Financial Rule 2017, the bidder shall be at liberty to question the bidding conditions, bidding process and/or rejection of bids. The tenderer shall certify that the tender document submitted by him / her are of the same replica of the tender document as published by IIT Madras and no corrections, additions and alterations made to the same. If any deviation found in the same at any stage and date, the bid / contract will be rejected / terminated and actions will be initiated as per the terms and conditions of the contract. Due to Covid-19 pandemic pre-bid meeting will be conducted through online. Clarification to the queries

ACKNOWLEDGEMENT

It is hereby acknowledged that I/We have gone through all the points listed under "Specification, Guidelines, Terms and Conditions" of tender document. I/We totally understand the terms and conditions and agree to abide by the same.

SIGNATURE OF TENDERER ALONG WITH SEAL OF THE COMPANY WITH DATE

Bidder Eligibility Criteria and Technical Specification for Solid State (X-Band) RADAR

Tender No. OE/MURA/129/2023/SOLIDSTATERDR

Bidder Eligibility Criteria – I (Public Procurement – Preference to Make in India)

Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE-II) dated 16th September 2020 and other subsequent orders issued therein.

Bidder Eligibility Criteria – II

The participating Bidder's firm shall be the Original Equipment Manufacturer (OEM) or OEM Certified / authorized firm. (Annexure F)

The bidder/OEM shall attach proof of minimum three purchase orders for having supplied Solid State (X-Band) Radars to Ports, Navy, Coast Guard, IWAI, IITs or other Government organizations in the last 5 years in the period 2018 to 2022. Purchase Orders, Invoice copies, Work Completion Certificates, Performance Certificates along with contact details of end user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder and the feedback from the previous customers will be part of technical evaluation.

III. TECHNICAL SPECIFICATION for Solid State (X-Band) RADAR

SI.	Specification		
No.			
1.	Frequency Range	X-band, between 8 GHz and 12 GHz	
2.	Transmitter Power	up to 80 - 150 W.	
3.	Receiver Sensitivity	Better than -100 dBm.	
4.	Polarization	Dual-polarization or more, it should transmit and receive signals in all	
		polarizations.	
5.	Antenna Array	Elements with a spacing of 0.1 to 50 lambda. Each element has a gain of	
		30 to 33 dBi.	
		Details of Transceiver	
6.	Beamwidth	0.5 to 24 degree depends on polarization.	
7.	Operating Temperature	Ranging from -40 degrees Celsius to +60 degrees Celsius.	
8.	Power Supply	110 ~ 230V AC/ DC power supply.	
9.	Dimensions of array	9 to 18 feet.	
10.	Weight	approximately 1000 ~ 3000 kg	
11.	Interface	Standard Ethernet interface for remote control and monitoring.	
12.	Cooling System	Liquid cooling system to maintain the temperature of the solid-state	
		components.	
13.	Protection	Protection against lightning strikes, overvoltage, overcurrent, and	
		overheating. Wind speed of 100 kts (Transmission) and Wind Speed of 13	
		Kts (Standby)	
14	Modulation	To support various modulation schemes such as pulse, continuous wave,	
1	1,1000010000	frequency modulation, and phase modulation.	
15.	Data Rate	Supports up to 10 Mbps.	
-	Range	10 to 110 Knot, depending on the pules and power of transmission, terrain	
	0	and weather conditions.	
17.	Frequency Stability	Better than ± 10 ppm.	
	Pulse Width	Ranging from 0.01 µs to 5 µs.	

19.	Pulse Repetition Frequency (PRF)	Ranging from 10 Hz to 10 kHz.
20.	Angular Resolution	In degree to allow for accurate tracking and identification of targets
21.	Noise Figure	Less than 3.5 to 2 dB, to improve its sensitivity and reduces noise interference
22.	Data Interface	To support Ethernet and RS-232/485 protocols for data transfer.
23.	Control Interface	To support Ethernet, RS-232/485, and USB protocols for remote control.
24.	Modular Design	To allow for easy maintenance, repair and hot-swappable, without shutting down the system.
25.	Beam Scanning	To scan its beam electronically, allowing it to cover a large area without physically moving the antenna. Capability to track moving targets, such as aircraft and ships.
26.	Frequency Agility	To operate on multiple frequencies within the X-band range, to adapt to different environments and avoid interference from other X-band systems.
27.	Adaptive Thresholding	To set the detection threshold based on the signal-to-noise ratio and enables to detect weak signals from distant targets while reducing false alarms.
28.	Multi-Target Tracking	To track multiple targets simultaneously and enables to monitor the movements of several targets and provide situational awareness.
29.	Automatic Gain Control (AGC)	To adjust the receiver gain based on the received signal strength and enables to maintain a constant output power and improve signal-to-noise ratio.
30.	Range Resolution:	Less than 20 to 30 meters and enables to distinguish between closely spaced targets.
31.	Azimuth Resolution	In degree to provide accurate target positioning
32.	Frequency Modulation:	To transmit and receive signals over a wide frequency range and to provide flexibility in selecting the optimal frequency for specific applications.
33.	Clutter Rejection	To use clutter rejection techniques, such as Doppler filtering and pulse compression, to filter out unwanted signals from the environment, such as reflections from the ground, buildings, or other objects.
34.	Radar Cross Section (RCS):	High sensitivity to the radar cross section of targets, which enables it to detect and track small or low RCS targets.
35.	Transmitter Efficiency:	High transmitter efficiency of greater than 30% and to reduce power consumption and heat dissipation.
36.		To integrate with other systems such as radar, communication, and surveillance systems easily and to provide a comprehensive solution for a wide range of applications.
37.	Additional Feature	PAH/ TPH/ phenol/ oil and grease/ MBAS Spill Compatibility transceiver

Other '	Other Terms and Conditions			
1.	Warranty	The warranty for the above equipment should be minimum of 12 months or more after the installation of the equipment or any portion thereof as the case may be. In case of any defect noticed in the equipment during the warranty period, the vendor has to rectify, service and replace the spares at free of cost and made it operational to the satisfaction of the end user. The warranty certificate should be furnished in the prescribed format.		
2.	Specification test on delivery of item	After delivery of item, specification test will be carried out on all supplied items by NTCPWC, IITM for its acceptance.		
3.	Training	Technical operational training to be provided to the Engineers of NTCPWC, IITM		

Gener	al Terms and Conditions
4.	Price should be inclusive of basic cost, freight, insurance, training, and warranty as applicable (Minimum 1 year).
5.	Factory Acceptance Test (FAT) : Vendor has to arrange for Factory Acceptance Test at the premises of OEM at their expenses. The Inspection will be carried out by the experts of NTCPWC, IITM before the despatch of items.
6.	All the items should be supplied within 10 - 12 weeks from the date of purchase order.
7.	End-of-Life (EOL) & End-of-service-Life (EOSL) certificate for the product and spare availability for the next 5 years to be provided.
8.	The successful L1 bidder has to coordinate for obtaining operating licence from WPC. Price escalation due to delay in getting licence from Gol/WPC will not be entertained.

TECHNICAL BID PROFORMA Tender No. OE/MURA/129/2023/SOLIDSTATERDR Item Name: Solid State (X-Band) RADAR

1.0 Bidder Eligibility Criteria:

Ι	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content value	Reference, Page No.
Ι	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 th September 2020 and other subsequent orders issued therein.			
II	Bidder Eligibility Criteria-II	Complied/N	ot Complied	Ref Pg.No
1	The participating Bidder's firm shall be the Original Equipment Manufacturer (OEM) or OEM Certified / authorized firm. (Annexure F)			
2	authorized firm. (Annexure F)The bidder/OEM shall attach proof of minimum three purchase orders for having supplied Solid State (X- Band) Radars to Ports, Navy, Coast Guard, IWAI, IITs or other Government organizations in the last 5 years in the period 2018 to 2022. Purchase Orders, Invoice copies, Work Completion Certificates, Performance Certificates along with contact details of end user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder and the feedback from the previous customers will be part of technical evaluation.			

3.0Technical Compliance:

Sl. No.		Specification	Complied/Not Complied	Ref Pg.No
1.	Frequency Range	X-band, between 8 GHz and 12 GHz		
2.	Transmitter Power	up to 80 - 150 W.		
3.	Receiver Sensitivity	Better than -100 dBm.		
4.	Polarization	Dual-polarization or more, it should transmit and receive signals in all polarizations.		
5.	Antenna Array	Elements with a spacing of 0.1 to 50 lambda. Each element has a gain of 30 to 33 dBi.		
	Detail	s of Transceiver		
6.	Beamwidth	0.5 to 24 degree depends on polarization.		
7.	Operating Temperature	Ranging from -40 degrees Celsius to +60 degrees Celsius.		
8.	Power Supply	110 ~ 230V AC/ DC power supply.		

9.	Dimensions of array	9 to 18 feet.	
10	Weight	approximately 1000 ~ 3000 kg	
	Interface	Standard Ethernet interface for	
		remote control and monitoring.	
12.	Cooling System	Liquid cooling system to maintain	
		the temperature of the solid-state	
		components.	
13.	Protection	Protection against lightning	
		strikes, overvoltage, overcurrent,	
		and overheating. Wind speed of	
		100 kts (Transmission) and Wind	
		Speed of 13 Kts (Standby)	
14.	Modulation	To support various modulation	
		schemes such as pulse, continuous	
		wave, frequency modulation, and	
		phase modulation.	
15	Data Rate	Supports up to 10 Mbps.	
16	Range	10 to 110 Knot, depending on the	
		pules and power of transmission,	
		terrain and weather conditions.	
17.	Frequency	Better than ± 10 ppm.	
	Stability		
18	Pulse Width	Ranging from 0.01 µs to 5 µs.	
19.	Pulse Repetition	Ranging from 10 Hz to 10 kHz.	
	Frequency (PRF)		
20.	Angular	In degree to allow for accurate	
	Resolution	tracking and identification of	
		targets	
21.	Noise Figure	Less than 3.5 to 2 dB, to improve	
	U	its sensitivity and reduces noise	
		interference	
22.	Data Interface	To support Ethernet and RS-	
		232/485 protocols for data transfer.	
23.	Control Interface	To support Ethernet, RS-232/485,	
		and USB protocols for remote	
		control.	
24.	Modular Design	To allow for easy maintenance,	
	-	repair and hot-swappable, without	
		shutting down the system.	
25.	Beam Scanning	To scan its beam electronically,	
	C	allowing it to cover a large area	
		without physically moving the	
		antenna. Capability to track	
		moving targets, such as aircraft	
		and ships.	
	Г	To operate on multiple frequencies	
26	Frequency		
26	Frequency Agility		
26.	Agility	within the X-band range, to adapt to different environments and	

		band systems.	
27	Adaptive	To set the detection threshold	
	Thresholding	based on the signal-to-noise ratio	
		and enables to detect weak signals	
		from distant targets while reducing	
		false alarms.	
28	Multi-Target	To track multiple targets	
	Tracking	simultaneously and enables to	
		monitor the movements of several	
		targets and provide situational	
		awareness.	
29.	Automatic Gain	To adjust the receiver gain based	
	Control (AGC)	on the received signal strength and	
		enables to maintain a constant	
		output power and improve signal-	
		to-noise ratio.	
30	Range	Less than 20 to 30 meters and	
	Resolution:	enables to distinguish between	
		closely spaced targets.	
31	Azimuth	In degree to provide accurate	
	Resolution	target positioning	
32.	Frequency	To transmit and receive signals	
	Modulation:	over a wide frequency range and to	
		provide flexibility in selecting the	
		optimal frequency for specific	
		applications.	
33.	Clutter Rejection	To use clutter rejection techniques,	
	5	such as Doppler filtering and pulse	
		compression, to filter out	
		unwanted signals from the	
		environment, such as reflections	
		from the ground, buildings, or	
		other objects.	
34	Radar Cross	High sensitivity to the radar cross	
~ ''	Section (RCS):	section of targets, which enables it	
		to detect and track small or low	
		RCS targets.	
35	Transmitter	High transmitter efficiency of	
	Efficiency:	greater than 30% and to reduce	
	<i>j</i> ·	power consumption and heat	
		dissipation.	
36	System	To integrate with other systems	
20	Integration:	such as radar, communication, and	
	integration.	surveillance systems easily and to	
		provide a comprehensive solution	
		for a wide range of applications.	
	Additional	PAH/ TPH/ phenol/ oil and grease/	
37			
37.	Feature	MBAS Spill Compatibility	

Other	r Terms and Conditions		
9.	Warranty	The warranty for the above	
	, i i i i i i i i i i i i i i i i i i i	equipment should be minimum	
		of 12 months or more after the	
		installation of the equipment or	
		any portion thereof as the case	
		may be. In case of any defect	
		noticed in the equipment	
		during the warranty period, the	
		vendor has to rectify, service	
		and replace the spares at free of	
		cost and made it operational to	
		the satisfaction of the end user.	
		The warranty certificate should	
		be furnished in the prescribed	
		format.	
10.	Specification test on delivery of item	After delivery of item,	
		specification test will be carried out on all supplied	
		items by NTCPWC, IITM for	
		its acceptance.	
11.	Training	Technical operational training	
11.	Training	to be provided to the Engineers	
		of NTCPWC, IITM	
Gene	ral Terms and Conditions		
12.	Price should be inclusive of basic cost,	freight, insurance, training, and	
	warranty as applicable (Minimum 1 yea		
13.	Factory Acceptance Test (FAT) : V		
	Acceptance Test at the premises of OEM at their expenses. The		
	Inspection will be carried out by the experts of NTCPWC, IITM before		
	the despatch of items.		
14.	All the items should be supplied within	n 10 - 12 weeks from the date of	
1.7	purchase order.		
15.	End-of-Life (EOL) & End-of-service-L		
1 -	product and spare availability for the ne		
16.	The successful L1 bidder has to co		
	licence from WPC. Price escalation du	e to delay in getting licence from	
	GoI/WPC will not be entertained.		

SIGNATURE OF BIDDER ALONG WITH SEAL OF THE COMPANY WITH DATE

FINANCIAL BID (PROFORMA) - BILL OF QUANTITIES (BOQ)

Item Name: Solid State (X-Band) RADAR Tender No. OE/MURA/129/2023/SOLIDSTATERDR

It. No	Description of work	Quantity	Units	Basic Rate in INR	GST in Percentage	Total Amount with taxes in INR
1	Supply of Solid State (X-Band) RADAR and accessories as per the technical Specification (The cost includes installation, commissioning and training) with 1 year warranty	1	No.			
2	Charges covering P&F, Transit Insurance and transport charges on door delivery basis upto destination project location of NTCPWC at V.O.Chidambaranar Port Authority, Tuticorin 628 004	1	No.			
	Grand Total					

Total Amount Rupees in words _____

FORMAT FOR AFFIDAVIT OF SELF-CERTIFICATION UNDER PREFERENCE TO MAKE IN INDIA – PER ITEM

Tender Reference Number:

Name of the item / Service:

Date:	
I/We	S/o, D/o, W/o,
Resident of	

Hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Policy vide GoI Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P- 45021/102/2019-BE-II-Part (1) (E-50310) Dt.4th March 2021 and any subsequent modifications/Amendments, if any and

That the local content for all inputs which constitute the said item/service/work has been verified by me and I am responsible for the correctness of the claims made therein.

Tick (🗸	() and Fill the Appropriate Category
	I/We[name of the supplier] hereby confirm in respect of quoted items thatLocal Content is equal to or more than 50% and come under "Class-I Local Supplier" category.
	I/We[name of the supplier] hereby confirm in respect of quoted items that Local Content is equal to 20% but less than 50% and come under "Class-II Local Supplier" category.
	he details of the location (s) at which the local value addition is made and the proportionate value of loca ntent in percentage
Addre	ss Percentage of Local content:%

For and on behalf of (Name of firm/entity)

Authorized signatory (To be duly authorized by the Board of Directors) <Insert Name, Designation and Contact No.>

[Note: In case of procurement for a value in excess of Rs. 10 Crores, the bidders shall provide this certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.]

This letter should be on the letterhead of the quoting firm and should be signed by a competent authority. Nonsubmission of this will lead to Disqualification of bids.

<u> Annexure – E</u>

(To be given on the letter head of the bidder)

No._____

Dated: _____

CERTIFICATE

(Bidders from India)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I am not from such a country.

OR (whichever is applicable)

(Bidders from Country which shares a land border with India)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I from ______ (Name of Country) and has been registered with the Competent Authority. I also certify that I fulfil all the requirements in this regard and is eligible to be considered. (Copy/ evidence of valid registration by the Competent Authority is to be attached)

Place: Date: Signature of the Tenderer Name & Address of the Tenderer with Office Stamp

OEM CERTIFICATION FORM (In Original Letter Head of OEM)

Tender No: Dated:

We are Orig	ginal Equipment Manufacturers (OE	M) of		(Name of	the
company) l	Ms	(Nam	e of the vende	or) is one of	our
Distributors/	/Dealers/Resellers/Partners	(tick	one)	for	the
		and	is participatin	g in the abo	ve-
mentione	d tender by offering our product me	odel		(Name of	the
product with	n model number).				

..... is authorized to bid, sell and provide service support warranty for our product as mentioned above.

Name and Signature of the authorized signatory of OEM along with seal of the company with Date



CENTRE FOR INDUSTRIAL CONSULTANCY & SPONSORED RESEARCH (IC&SR) INDIAN INSTITUTE OF TECHNOLOGY MADRAS CHENNAI 600 036



ELECTRONIC CLEARING SERVICE (Credit Clearing)/ REAL TIME GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS A. Details of Account Holder

Name of the Institution	Indian Institute of Technology - Madras
Complete Contact Address	Industrial Consultancy and Sponsored Research Indian Institute of Technology-Madras, IIT- Madras Campus Post Office, Sardar Patel Road, Guindy, CHENNAI - 600 036
Telephone No./ Fax No.	Tel - 044-2257 8356
E- mail ID of the FO/AO/REG/DIR	dricsr@iitm.ac.in

B. Bank Account Details:

Institution Account Name (As per Bank	The Registrar, Indian Institute of
Record)	Technology - Madras
Account No.	2722101003872
Account Print Name	IIT F A/C , The Registrar IIT Madras
IFSC CODE	CNRB0002722
Bank Name (in full)	Canara Bank
Branch Name	IIT-Madras Branch
Complete Branch Address	Canara Bank,
	IIT-Madras Branch,
	IIT- Madras Campus Post Office,
	Sardar Patel Road,
	Guindy, CHENNAI - 600 036
MICR No.	600015085
Account Type	Savings Account

Certified that the Institute's account is in an RTGS enabled branch.

I hereby declare that the particulars given above are correct and complete

Signature of the competent Authority of the Institution with seal.

Date: