भारतीय उष्णदेशीय मौसम विज्ञान संस्थान INDIAN INSTITUTE OF TROPICAL METEOROLOGY

(पृथ्वी विज्ञान मंत्रालय, भारत सरकार का एक स्वायत संस्थान)

(An autonomous Institute under the Ministry of Earth Sciences, Govt. of India) पाषाण, पुणे - 411 008 PASHAN, PUNE - 411008

वैश्विक निविदा सूचना / GLOBALTENDER NOTICE

निदेशक, भारतीय उष्णदेशीय मौसम विज्ञान संस्थान, डॉ. होमी भाभा मार्ग, पाषाण, पुणे - 411 008 (भारत) निम्नलिखित की आपूर्ति, प्रवर्तन, संस्थापन एवं संतोषप्रद निरूपण हेतु निर्माताओं/आपूर्तिकारों एवं उनके प्रत्यायित विक्रय एजेंटों से निविदाएं (भाग-। तकनीकी बोली, भाग - ॥ क़ीमत बोली) आमंत्रित करते हैं :

Director, Indian Institute of Tropical Meteorology, Dr. Homi Bhabha Road, Pashan, Pune - 411008 (India) invites tenders (Part-I – Technical Bid, Part-II – Price Bid) from Manufacturers / Suppliers and their accredited selling agents for the supply, installation, commissioning, and satisfactory demonstration of following.

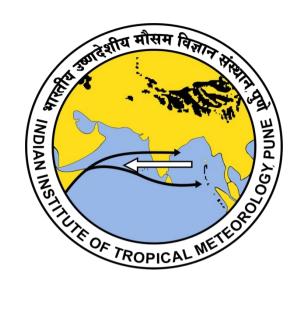
क्रम सं.	वैश्विक निविदा सूचना सं.	विवरण / Description
Sr. No.	Global Tender Notice No.	·
01.	पीएस/128/18/2018	इंटेग्रेटेड रेन मॉनिटरिंग एंड वॉर्मिंग के साथ मुंबई महानगर क्षेत्र में शॉर्ट-रेंज एक्स-बैंड
	PS/128/18/2018	पोलारिमेट्रिक स्कैनिंग डॉपलर मौसम रडार नेटवर्क की आपूर्ति, स्थापना, कमीशन और
		रखरखाव - मात्रा 04 सेट्स
		Supply, installation, commissioning and maintenance of Short-Range X-Band Polarimetric Scanning Doppler Weather Radar Network in Mumbai Metropolitan Region with an Integrated Rain Monitoring and Warming – Qty.04 Sets.

बोली-पूर्व बैठक (ऑफलाइन) : 18 जुलाई 2019 को 11:00 बजे Pre-bid Meeting (Offline) : 18th July 2019 at 1100 hrs. ऑनलाइन मोड पर निविदा प्रस्तुत करने की अंतिम तिथि : 14 अगस्त 2019 को 15:00 बजे Last date of submission of Tender on online mode : 14th August 2019 at 1500 hrs. ऑनलाइन (तकनीकी बोलियाँ केवल) निविदा खोलने की तिथि : 14 अगस्त 2019 को 15:30 बजे Opening of Tenders online (Technical bids only) : 14th August 2019 at 1530 hrs

संस्थान को किसी निविदा या सभी निविदाओं को बिना कारण बताए निरस्त करने का अधिकार है। विस्तृत विवरण एवं बोलियों के प्रस्तुतीकरण हेतु कृपया वेबसाइट https://moes.euniwizarde.com देखें। संभावित बोलीदाताओं की जानकारी के लिए, निविदा विवरण भी इस संस्थान की वेबसाइट http://www.tropmet.res.in एवं सरकार का सेंट्रल प्रोक्यूरमेंट पोर्टल (सीपीपी) http://www.eprocure.gov.in. पर भी उपलब्ध है। संस्थान किसी भी स्तर पर बिना किसी कारण बताए निविदा को पूरा या आंशिक रदद करने का अधिकार स्रक्षित रखता है।

The Institute reserves the right to reject any or all tenders without assigning any reason thereof. For details and submission of bids please visit website https://moes.euniwizarde.com. For the information of the prospective bidders, the tender details are also available on this Institute's Website: http://www.tropmet.res.in and Government's Central Procurement Portal (CPP) http://www.eprocure.gov.in. The Institute reserves the right to cancel the tender at any stage either in full or part as the case may be without assigning any reason thereof.

Sd-प्रशासनिक अधिकारी, कृते निदेशक Administrative Officer, for Director ईमेल/Email :psu.iitm@tropmet.res.in



TENDER DOCUMENT

FOR

SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF SHORT-RANGE X-BAND POLARIMETRIC DOPPLER WEATHER SCANNING RADAR (QTY – 04 SETS) NETWORK IN MUMBAI METROPOLITAN REGION WITH AN INTEGRATED RAIN MONITORING AND WARNING

INDIAN INSTITUTE OF TROPICAL METEOROLOGY

(AN AUTONOMOUS INSTITUTE OF MINISTRY OF
EARTH SCIENCES, GOVERNMENT OF INDIA)

DR. HOMI BHABHA ROAD, PASHAN, PUNE 411 008
MAHARASHTRA, INDIA



INDIAN INSTITUTE OF TROPICAL METEOROLOGY

(AN AUTONOMOUS INSTITUTE OF MINISTRY OF EARTH SCIENCES, GOVERNMENT OF INDIA)
DR. HOMI BHABHA ROAD, PASHAN, PUNE 411 008 MAHARASHTRA, INDIA

Tel #: 00 91 20 2590 4200 Fax #: 00 91 20 2586-5142 Email: psu.iitm@tropmet.res.in Website: www.tropmet.res.in

Invitation for Bids through E-procurement

Date: 03/07/2019

The Indian Institute of Tropical Meteorology (IITM), Pune an autonomous body under Ministry of Earth Sciences (MoES), Govt. of India. IITM is country's premiere research Institute to generate scientific knowledge in the field of meteorology and atmospheric sciences that has potential application in various fields such as agriculture, economics, health, water resources, transportation, communications, etc. It functions as a national centre for basic and applied research in monsoon meteorology. The Director, IITM would like to procure the following Goods / Services for its day-to-day research. The Technical specifications, Allied requirements and Scope of Supply are given in **Chapter 4** appended herewith.

Sr. No.	Tender No.	Brief Description of Goods / Services	Quantity	Single /Two Bid
1	PS/128/18/2018	Supply, installation, commissioning and maintenance of	04 Sets	Two
		Short-Range X-Band Polarimetric Scanning Doppler		
		Weather Radar Network in Mumbai Metropolitan Region		
		with an Integrated Rain Monitoring and Warming		

- 1. The bid has to be submitted online on Institute's e-procurement system hosted at website https://moes.euniwizarde.com as per the process mentioned on the same website. Bidder has to register on the above website & to pay the transaction fee directly to M/s. ITI Limited to participate in the bidding process through e-procurement. Bidders are advised to follow the instructions provided in 'Vendor's Guide" available on the said e-procurement website. Bidders can contact at 011-49606060 for any technical queries regarding registration and submission of bid on the above portal.
- 2. The address for submission of technical bids only and for obtaining further information:

The Assistant Manager (Purchase Section) Indian Institute of Tropical Meteorology, Dr.Homi Bhabha Road, Pashan, Pune - 411008 (India)

3. A Pre-bid Conference will be held on schedule mentioned below. All prospective bidders are requested to kindly submit their queries to the address indicated above so as to reach the Stores & Purchase Officer at least one day before Pre-Bid Conference.

	Date	Time in hours (IST)	Venue
Pre-Bid Conference	18th July, 2019	1100 hrs.	IITM, Pune.

4. The Bid prepared by the Bidder shall include the following:-

i)	Bid Security	
	a) In case of Foreign Bidder : USD 69,470.00	
	b) In case of Indigenous Bidder : ₹ 50,00,000/-	
ii)	Forms as specified in Chapter No.8	

- 5. All bids must be accompanied by a Bid Security as specified above and must be delivered to the above office before the date and time indicated below. In the event of the date specified for bid receipt is declared as a closed holiday, the due date for submission of bids will be the following working day at the appointed time.
- 6. The Schedule for Submission of Bids is as follows:-

	Date	Time in hours (IST)	Submit to / Venue
Submission of Bids	14th August, 2019	Upto 1500 hrs.	As detailed at Sr. No.1
Opening of Bids	14th August, 2019	1530 hrs	

7. The Director, **The Indian Institute of Tropical Meteorology (IITM), Pune** reserves the right to accept or reject any or all tenders / offers either in part or in full or to split the order without assigning any reasons there for. NIT has also been published on Government's Central Procurement Portal (CPP) http://www.eprocure.gov.in as well as this Institute's Website: http://www.tropmet.res.in which may also be referred for more details.

CONTENTS OF TENDER / BIDDING DOCUMENT

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2B	Special Conditions of Contract (SCC)	31
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4	Specifications, Allied Technical Details And Scope of Supply	35
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LIST OF SHORT FORMS AND FULL FORMS

SHORT FORM	FULL FORM
BG	BANK GUARANTEE
BS	BID SECURITY
CIF	COST INSURANCE &FREIGHT
CIP	CARRIAGE PAID TO
IITM	INDIAN INSTITUTE OF TROPICAL METEOROLOGY,
cvc	CENTRAL VIGILANCE COMMISSION
DGS&D	DIRECTOR GENERAL OF SUPPLIES & DISPOSAL
EMD	EARNEST MONEY DEPOSIT
ESIC	EMPLOYEES STATE INSURANCE CORPORATION
FCA	FREE CARRIER
FOB	FREE ON BOARD
GCC	GENERAL CONDITIONS OF CONTRACT
GOI	GOVERNMENT OF INDIA
ICC	INTERNATIONAL CHAMBERS OF COMMERCE
IEMs	INDEPENDENT EXTERNAL MONITORS
IP	INTEGRITY PACT
IPC	INDIAN PENAL CODE
IST	INDIAN STANDARD TIME
IT	INCOME TAX
ITB	INSTRUCTIONS TO BIDDERS
JS (A)	JOINT SECRETARY (ADMINISTRATION)
LC	LETTER OF CREDIT
LD	LIQUIDATED DAMAGES
MAF	MANUFACTURER AUTHORISATION FORM
NIT	NOTICE INVITING TENDER
NSIC	NATIONAL SMALL INDUSTRIES CORPORATION
MSME	MICRO, SMALL AND MEDIUM ENTERPRISES
PS	PERFORMANCE SECURITY
SCC	SPECIAL CONDITIONS OF CONTRACT
UNCITRAL	UNITED NATIONS COMMISSION ON INTERNATIONAL TRADE LAW

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A. Introduction

Instructions to bidder are broad guidelines to be followed while formulating the bid and its submission to the Purchaser. It also describes the methodology for opening and evaluation of bids and consequent award of contract.

1.1 Eligible Bidders

- 1.1.1. This Invitation for Bids is open to all suppliers who fulfil the eligibility criteria as per chapter 5 and 1.1.2
- 1.1.2. Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids.
- 1.1.3. Bidders who fulfil the Eligibility Criteria mentioned in **Chapter 5** will be considered for Technical Evaluation of bids.

1.2 Cost of Bidding

The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

1.3 Fraud and corruption

1.3.1. The purchaser requires that the bidders, suppliers and contractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the following are defined:

Sr. No.	Term	Meaning	
(a)	Corrupt practice	The offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution.	
(b)	Fraudulent practice	a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract.	
(c)	Collusive practice	means a scheme or arrangement between two or more bidders, with or without the knowledge of the purchaser, designed to establish bid prices at artificial, non-competitive levels.	
(d)	Coercive practice	means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract.	

1.3.2. The Purchaser will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.

B. The Bidding Documents

1.4 Cost of Bidding Documents

The bidding documents are to be downloaded from Institute's e-procurement website hosted at https://moes.euniwizarde.com as per the procedure mentioned on the said website. The bidding document is free of cost however transaction fees mentioned on the website has to be paid according to the procedure mentioned at the website.

1.5 <u>Content of Bidding Documents</u>

- 1.5.1. The Goods / Services required, bidding procedures and contract terms are prescribed in the bidding documents which should be read in conjunction. The bidding documents, apart from the Invitation for Bids / Notice Inviting Tender have been divided into Eight Chapters.
- 1.5.2. The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

1.6 Clarification of bidding documents

1.6.1. In case when there is NO PRE-BID CONFERENCE

A prospective Bidder requiring any clarification of the Bidding Documents shall contact the Purchaser in writing at the Purchaser's address specified in the Special Conditions of Contract (SCC). The Purchaser will respond in writing to any request for clarification, provided that such request is received not later than ten (10) days prior to the due date for submission of bids. The Purchaser shall host the response on its website, including a description of the inquiry but without identifying its source. Should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under *Clause 1.7* relating to amendment of bidding documents and Clause 1.19 relating to Due date for Submission of Bids. The clarifications and amendments issued would also be hosted on the website of the purchaser for the benefit of the prospective bidders who are expected to take cognizance of the same before formulating and submitting their bids.

1.6.2. In case when there is PRE-BID CONFERENCE

- a) A prospective Bidder requiring any clarification of the Biding Documents shall contact the Purchaser in writing at the Purchaser's address specified in the Special Conditions of Contract (SCC), latest by the date specified in the Invitation for Bids / NIT which would be deliberated as per Clause 1.6.2 (b) of Instructions to the Bidders. No request for clarification or query shall be normally entertained after the Pre-Bid Conference. Should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under Clause 1.7 relating to amendment of Bidding Documents and Clause 1.19 relating to Due Date for Submission of Bids. The clarifications and amendments issued would also be hosted on the website of the Purchaser for the benefit of the other prospective bidders.
- b) A Pre-bid Conference shall be held as indicated in Invitation to Bid. All prospective bidders are requested to kindly attend the Pre-bid Conference. In order to facilitate IITM for proper conduct of the Pre-bid Conference, all prospective bidders are requested to kindly submit their queries (with envelope bearing Tender No. and Date on top and marked "Queries for Pre-bid Conference") so as to reach IITM at least 3 days before the date of Pre-bid Conference as indicated in Invitation to Bid. IITM shall answer the queries during the pre-bid conference, which would become a part of the proceedings of the Pre-bid Conference. These proceedings will become a part of clarifications / amendments to the bidding documents and would become binding on all the prospective bidders. These proceedings would also be hosted on IITM website www.tropmet.res.in for the benefit of all the prospective bidders. Before formulating and submitting their bids, all prospective bidders are advised to surf through the IITM website after the Pre-bid Conference, in order to enable them take cognizance of the changes made in the bidding document. These proceedings would also be sent to prospective bidders by email as well as in hard copy.
- c) Prospective Bidders who are attending the Pre-Bid meeting has to bring the authorization letter from OEM.

1.7 Amendment to Bidding Documents

- 1.7.1. At any time prior to the due date for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.
- 1.7.2. All prospective bidders who have downloaded the Tender Document should surf Institute's e-procurement website https://moes.euniwizarde.com from time to time to know about the changes / modifications in the Tender Document. All prospective bidders are expected to surf the website before formulating and submitting their bids to take cognizance of the amendments.
- 1.7.3. In order to allow prospective bidders reasonable time to take the amendment into account while formulating their bids, the Purchaser, at its discretion, may extend the due date for the submission of bids and host the changes on the website of the purchaser.

C. Preparation of bids

1.8 Language of Bid

- 1.8.1. The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in English language only especially when the details are technical. However, if GOI makes it mandatory under Rajbhasha Abhiyan, in that case views of Rajbhasha unit of IITM may be sought.
- 1.8.2. The Supplier shall bear all costs of translation, if any, to the English language and bear all risks of the accuracy of such translation, for documents provided by the Supplier.

1.9 <u>Documents Comprising the Bid</u>

The bid prepared by the Bidder shall include the following as per the requirement of the Tender Document:

а	Bid Security as specified in the Invitation to Bids
b	Bidder Information Form
С	Manufacturer's Authorization Form
d	Documents required to fulfil Eligibility and Qualification criteria as specified in Chapter-5
е	Detailed Technical Specifications and Scope of Supply
f	Schedule of requirements
g	Performance Statement Form
h	Service support details form
i	Deviation Statement Form
j	Bid form
k	Price Schedule Form(s)
-	Documentary evidence establishing that the bidder is eligible to bid and is qualified to
	perform the contract if its bid is accepted
m	Documents establishing goods eligibility and conformity to bidding documents
n	Certificate of Competent Authority in case the items under procurement falls under the
	restricted category of the current export-import policy of the Government of India

The documents comprising bid should be submitted in the above sequence in orderly manner.

1.10 Bid form and Price Schedule

The bidder shall complete the Bid Form and the appropriate Price Schedule form as given in Chapter- 6 furnished in the bidding documents. These forms must be completed without any alterations to its format and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested. The Bid Form and the appropriate Price Schedule form shall be submitted in accordance with ITB Clause 1.18.3 of the bidding documents.

1.11 Bid Prices

- 1.11.1. The Bidder shall indicate on the appropriate price schedule form, the unit prices and total bid prices of the Goods / Services it proposes to supply / to provide (render) under the contract.
- **1.11.2**. Prices indicated on the price-schedule form shall be entered separately in the following manner:

(a) For Goods manufactured within India:

i)	The price of the goods quoted Ex-works including taxes already paid.	
ii)	GST and other taxes like LBT / Octroi etc. which will be payable on the goods if the contract	
	is awarded.	
iii)	The charges for inland transportation, insurance and other local services required for	
	delivering the goods at the desired destination as specified in the price schedule form.	
iv)	The installation, commissioning and training charges including any incidental services, if	
	any.	

(b) For Goods manufactured abroad:

i) The price of the goods, quoted on FCA (named Airport abroad) or FOB (named port of shipment), as specified in the price schedule form.

- ii) The charges for insurance and transportation of the goods to the port / place of destination.
 iii) The agency commission charges payable to Indian agent in Indian rupees, if any.
 iv) The installation, commissioning and training charges including any incidental services, if
- 1.11.3. The terms FOB, FCA, CIF, CIP etc shall be governed by the rules prescribed in the current edition of the Incoterms published by the International Chambers of Commerce, Paris.
- 1.11.4. Where there is no mention of packing, forwarding, freight, insurance charges, taxes etc. such offer shall be rejected as incomplete.
- 1.11.5. The price quoted shall remain fixed during the contract period and shall not vary on any account.
- 1.11.6. All lots and items must be listed and priced separately in the Price Schedules. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. Lots or items not listed in the Price Schedule shall be assumed to be not included in the bid.
- 1.11.7. The purchases by IITM for scientific purposes are allowed at concessional rate of custom duty and GST as per the notifications issued by Government of India.

Custom Duty	The Purchaser is exempted at a concessional rate from payment of Custom Duty vide Govt. Of India Notification No.51/96-Customs dated 23 rd July, 1996
GST	The Purchaser is registered with Department of Scientific and Industrial Research (DSIR) for purposes of availing GST concession in terms of Notification No. 47/2017-Integrated Tax (Rate) dt. 14/11/2017, Notification No. 45/2017-Central Tax (Rate) dt. 14/11/2017 and Notification No. 45/2017-Union Territory Tax (Rate) dt. 14/11/2017. The maximum GST is applicable @ 5% only for goods procured for research purpose of the Institute.

- 1.11.8. In case of imports the freight & insurance will be paid by the Purchaser, as the consignments are to be shipped through the Purchaser nominated freight forwarder unless otherwise mentioned specifically.
- 1.11.9. The quotation should be only in Indian Rupees for indigenous items. In case of foreign quote, the vendors may quote their rates in Indian Rupees as well as in Foreign Currency.
- 1.11.10. In case of INR bids the price criteria should be on Free Delivery to IITM, Pune. Govt. Levies like GST, LBT / Octroi etc., if any, shall be paid at actual rates applicable on the date of delivery. Rates should be quoted accordingly giving the basic price, GST etc., if any. IITM is exempted from paying Local Body Tax (LBT) & hence supplier supplying items from outside Pune Municipal limits should quote excluding LBT.
- 1.11.11. Custom Duty is levied on all import meant for IITM. Hence, the suppliers are requested to quote only on FOB/FCA basis, freight, insurance and custom duty as applicable to R&D Institutions will be paid by the Purchaser.
- Note: All payments due under the contract shall be paid after deduction of statutory levies at source (like ESIC, IT (TDS), GST, LBT / Octroi etc.), wherever applicable.

1.12 Bid Currencies

Prices shall be quoted in Indian Rupees for offers received for supply within India and in foreign currency (preferably in **USD**) in case of offers received for supply from foreign countries.

1.13 <u>Documents Establishing Bidder's Eligibility and qualifications</u>

- 1.13.1. The bidder shall furnish, as part of its bid, documents establishing the bidders' eligibility to bid and its qualification to perform the contract if its bid is accepted.
- 1.13.2. The documentary evidence of the bidders qualification to perform the contract if the bid is accepted shall establish to the purchasers satisfaction that:
 - (a) The bidder meets the qualification criteria listed in bidding documents, if any.
 - (b) Bidder who doesn't manufacture the goods it offers to supply shall submit Manufacturers' Authorization Form using the form specified in the bidding document to demonstrate that

- it has been duly authorized by the manufacturer of the goods to quote and $\/$ or supply the goods.
- (c) In case a bidder not doing business within India, it shall furnish the certificate to the effect that the bidder is or will be represented by an agent in India, equipped and able to carry out the supply, maintenance, repair obligations etc. during the warranty and post warranty period or ensure a mechanism at place for carrying out the supply, maintenance, repair obligations etc. during the warranty and post-warranty period.
- 1.13.3. Conditional tenders / offers shall **not** be accepted.

1.14 Documents Establishing Goods' Eligibility and Conformity to Bidding Documents

- 1.14.1. To establish the goods' eligibility, the documentary evidence of the goods and services eligibility shall consist of a statement on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin at the time of shipment.
- 1.14.2. To establish the conformity of the goods and services to the specifications and schedule of requirements of the bidding document, the documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings and data, and shall consist of:
 - (a) A detailed description of the essential technical and performance characteristics of the goods;
 - (b) A list giving full particulars, including available sources and current prices, of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods during the warranty period following commencement of the use of the goods by the Purchaser in the Price- bid; and
 - (c) An item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.
- 1.14.3. For purposes of the commentary to be furnished pursuant to above, the Bidder shall note that standards for workmanship, material and equipment, designated by the Purchaser in its Technical Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute these in its bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

1.15 Bid Security (BS) / Earnest Money Deposit (EMD)

1.15.1. The Bidder shall furnish, as part of its bid, a Bid security (BS) / Earnest Money Deposit (EMD) of amount as specified in NIT in the form of a Bank Guarantee / Demand Draft drawn on any Scheduled / Commercial / Nationalized Bank in favour of the Director, The Indian Institute of Tropical Meteorology (IITM), Pune, The scan copy of the Bid Security / Earnest Money Deposit (EMD) has to be uploaded in the e-procurement website of the Institute and Original copy of the same has to be kept in the Technical Bid envelop which needs to be submitted on or before date submission of bids. Alternately EMD amount can be deposited in IITM, Pune account by RTGS/NEFT/SWIFT. The details of online transfer may be communicated to IITM Pune immediately.

A. In case of Foreign Bidder(s):

- a) The BS shall be submitted either by the principal or by the Indian agent.
- b) The bidder who submits the tender on behalf of their principals should produce documentary evidence in support of their authority to quote.
- c) Bid Security may be given only in the form of Bank Guarantee.

B. In the case of indigenous bidders:

- a) The BS shall be submitted by the manufacturer or their specifically authorized dealer/bidder.
- 1.15.2. Bids submitted without BS/EMD will stand rejected. BS/EMD will not be accepted in the form of cash / cheque or any other form other than DD/Banker's Cheque/TDR/Bank Guarantee as per Chapter-8: Annexure A. No interest is payable on BS/EMD
- 1.15.3. The bid security is required to protect the Purchaser against the risk of Bidder's conduct, which would warrant the Bid security's forfeiture.

1.15.4. The bid security shall be in Indian Rupees for offers received for supply within India and denominated in the currency of the bid or in any freely convertible foreign exchange in the case of offers received for supplies from foreign countries in equivalent Indian Rupees. The bid security shall be in one of the following forms at the bidders' option:

(a)	A Bank Guarantee (BG) issued by a Nationalized / Scheduled bank / Commercial /		
	Foreign Bank operating in India in the form provided in the bidding documents and valid		
	for 45 days beyond the validity of the bid. In case a bidder desires to submit a BG issued		
	from a foreign bank, then the same should be confirmed by a Nationalised / Scheduled		
	Indian bank;		
	OR		
(b)	A Banker's cheque or demand draft in favour of the Purchaser issued by any Nationalised		
	/ Scheduled Indian bank / Commercial bank.		
	OR		
(c)	EMD amount can be deposited in IITM, Pune account by RTGS/NEFT/SWIFT.		
	Account No. : 11099449733		
	Bank Name and address : STATE BANK OF INDIA		
	IFSC Code : SBIN0000454		
	Swift Code : SBININBB238		

- 1.15.5. The bid security shall be payable promptly upon written demand by the purchaser in case the conditions listed in the **ITB clause 1.15.11** are invoked.
- 1.15.6. The bid security should be submitted in its original form. Copies shall not be accepted.
- 1.15.7. Bid security / EMD is mandatory requirement and exemption is applicable to the firms registered with NSIC / MSME only for the manufacture of the tendered goods and not for selling products manufactured by other companies.
- 1.15.8. The Bid Security of unsuccessful bidder will be discharged / returned as promptly as possible but positively within a period of 30 days after the expiration of the period of bid validity or placement of order whichever is later, without any interest.
- 1.15.9. The successful Bidder's bid security will be discharged upon the Bidder furnishing the Performance Security, without any interest. Alternatively, the BS could also be adjusted against Performance Security, if it is paid through Demand Draft / Banker's Cheque.
- 1.15.10. In case a bidder intimates at the time of tender opening in writing that the bid security is kept inside the financial bid, then in such cases, the technical bid of the party would be accepted provisionally till opening of the financial bids with which the party has attached the bid security.
- 1.15.11. The bid security may be forfeited:

(a)	If Bidder withdraws or amends or modifies or impairs or derogates its bid during the period
	of bid validity specified by the Bidder on the Bid Form;
	OR
(b)	In case of successful Bidder, if the Bidder fails to furnish order acceptance within 14 days of
	the order or fails to sign the contract and / or fails to furnish Performance Security within 14
	days from the date of contract / order.

1.15.12. Whenever the bidder chooses to submit the Bid Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

1.16 Period of Validity of Bids

- 1.16.1. Bids shall remain valid for minimum of 180 days after the date of bid opening prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.
- 1.16.2. In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (or by fax or email). The bid security provided shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid.

1.16.3. Bid evaluation will be based on the bid prices without taking into consideration the above corrections.

1.17 Format and Signing of Bid

- 1.17.1. The bids may be submitted as Single-bid or Two-bid as specified in the Invitation for Bids / NIT through e-procurement system hosted at website https://moes.euniwizarde.com as per the process mentioned on the same website.
- 1.17.2. In case the bids are invited on single bid basis, then the Bidder shall submit his / her technocommercial offer (technical literature / specifications & commercial terms & condition only) in a single bid envelope & shall prepare two copies of the bid, clearly marking each "Original Bid" and "Copy Bid", as appropriate. In the event of any discrepancy between them, the original shall govern. Scan copy of the same (Technical Bid) has also to be uploaded on E-procurement portal. Price bid must be submitted through e-procurement portal only.
- 1.17.3. In case the bids are invited on two-bid system, the Bidder shall submit the bids in two separate parts. First part shall contain Technical bid comprising all documents listed under clause relating to Documents Comprising the Bid excepting bid form and price schedule forms. The second part shall contain the Price-Bid comprising Bid Form and Price Schedule forms. The Bidder shall prepare two copies of the technical bid, clearly marking each "Original Bid" and "Copy Bid", as appropriate & the copies of the documents submitted as a part of Technical Bid in e-procurement system should reach IITM, Pune within 5 working days from the last date of submission of bids on e-procurement system. However, it may please be noted that price bid must be submitted through e-procurement portal only; no hard copy of price bid will be acceptable in any case.
- 1.17.4. The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. All pages of the bid, except for un-amended printed literature, shall be initialled by the person or persons signing the bid.
- 1.17.5. Any interlineations, erasures or overwriting shall be valid only if they are initialled by the person or persons signing the bid.

D. Submission and sealing of Bids

1.18 Submission of Bids

- **1.18.1.** The bidders may submit their bids online on Institute's e-procurement portal hosted at https://moes.eunlwizarde.com and duly sealed technical bids (with soft copy) along with Earnest Money Deposit may be submitted generally by post or by hand at the Institute on or before last date of submission of bids.
 - a) The soft copy of the Technical Bid has to be submitted on Institute e-procurement site https://moes.euniwizarde.com as per the instruction given at the site.
 - b) Price has to be filled on Institute's e-procurement site https://moes.euniwizarde.com. Bidders are required to submit the standard BoQ as per the format prescribed in the bidding document by filling the necessary white cells of the excel sheet (unprotected cells) only. In addition to this, the scanned copy of duly filled in and signed Price Bid in pdf format may also be uploaded on the above e-procurement site. The prices quoted in the excel sheet format will prevail if noticed any discrepancy in the figures of the excel sheet and pdf copy of price bid uploaded. The prices filled in the e-procurement site will be treated as final and shall be binding to the vendor.
 - c) Bidders are advised to follow the instructions provided in 'Vendor's Guide" available on the said e-procurement website. For any query / technical help regarding M/S. ITI Limited E-procurement portal, bidders may directly contact to the following officials of M/S. ITI Limited:

i) Mr. Shubhankar - +91 8076208995 ii) Mr Awesh - +91 9205898224 iii) Helpdesk Number - 011-49606060

iv) Email: <u>helpdeskeuniwizarde@gmail.com</u>

1.18.2. Sealing of Bids in the case of bids invited on Single Bid basis:

The Bidder shall mark the Technical Bids as "original" and "copy". The original and copy Bids shall then be sealed in an envelope & shall submit to this Institute not more than 5 days from the last date of submission of bid online.

1.18.3. Sealing of Bids in the case of bids invited on Two bid basis:

- d) Technical Bid should contain documents as listed in Clause- 1.9 without mentioning Prices on Bid Form and Price Schedule Form(s). The Bidder shall seal the original Bid and copy Bid, duly marking the Bids as "original" and "copy". The original and copy Bids shall then be sealed in the Envelope and marked as Technical Bid.
- e) Price Bid should contain Bid Form and Price Schedule Form(s) with Rates / Prices filled in as per Chapter 6. Price Bid must be submitted online only through e-procurement portal.

1.18.4. Marking of Envelopes for submission of Technical Bids :

- a) The Technical bid envelope shall be addressed to the Purchaser indicated in the Special Conditions of Contract (SCC).
- b) The name and address of the bidder, Tender No., due date and a warning "Do not open before _____" to be completed with the time and date as specified in the invitation for bids.
- c) Envelope should be super scribed with

•	Tender Number:	
•	Due Date	Time
	Name of the Vendor	

- Addressed To:
 - THE DIRECTOR
 THE INDIAN INSTITUTE OF TROPICAL METEOROLOGY,
 Dr.HOMI BHABHA ROAD, PASHAN,
 PUNE-411 008 (MAHARASHTRA)- INDIA
- 1.18.5. If Technical Bid envelope is not sealed and marked as required above, the Purchaser will assume no responsibility for the bid's misplacement or premature opening of the submitted bid. In such cases, bids received in open condition within the due date and time will be accepted at the risk of the bidder if the same is presented to the Purchase Officer before expiry of the due date and time of opening of the bids.

1.19 Due date for Submission of Bids

- 1.19.1. Bids must be received by the Purchaser at the address specified in NIT not later than the time and date specified in NIT. In the event of the specified date for the submission of Bids being declared a holiday for the Purchaser, the Bids will be received up to the appointed time on the next working day.
- 1.19.2. The Purchaser may, at its discretion, extend the due date for submission of bids by amending the bid documents in accordance with Clause relating to Amendment of Bidding Documents in which case all rights and obligations of the Purchaser and Bidders previously subject to the due date will thereafter be subject to the due date as extended.
- 1.19.3. The online tender should be submitted strictly as per the terms and conditions and procedures laid down in the website https://moes.euniwizarde.com e-procurement portal of the Institute.
- 1.19.4. Bidders may also refer instructions towards terms and conditions and procedures for bidding through e-procurement portal https://moes.eunlwizarde.com as per detailed in **Annexure N.**

1.20 Submission of Bids

- 1.20.1. Online submission of the bid will not be permitted on the e-procurement portal after expiry of submission time and the bidder shall not be permitted to submit the same by any other mode.
- 1.20.2. The copies of the documents submitted as a part of Technical Bid in e-procurement system should reach IITM, Pune within 5 working days from the last date of submission of bids on e-procurement

system. The bids shall be liable to reject if the document not received within stipulated deadline and the uploaded online bid on the portal shall be considered as non-responsive and shall not be processed further. In case of any discrepancy between online uploaded technical bid and hard copy submitted at this Institute, the online copy shall be considered as final.

1.21 Withdrawal, substitution and Modification of Bids

- **1.21.1.** The Withdrawal, substitution and Modification of Bids is permitted as per the provisions of the eprocurement system.
- 1.21.2. No bid may be withdrawn, substituted, or modified in the interval between the due date for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form or any extension thereof.

E. Opening and Evaluation of Bids

1.22 Opening of Bids by the Purchaser

1.22.1. Opening of Bids by the Purchaser will be done as per the provisions of the e-procurement system.

In the event of the specified date of Bid opening being declared a holiday for the Purchaser, the Bids shall be opened at the appointed time and location on the next working day. In case of two-bid, the Price bid shall be opened only after technical evaluation.

1.22.2. Bidders interested in participating in the bid opening process, should witness the tender opening process on e-procurement system.

1.23 <u>Confidentiality</u>

- 1.23.1. Information relating to the examination, evaluation, comparison, and post qualification of bids, and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with such process until Award of the Contract.
- 1.23.2. Any effort by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and post qualification of the bids or contract award decisions may result in the rejection of its Bid.

1.24 Clarification of Bids

To assist in the examination, evaluation, comparison and post qualification of the bids, the Purchaser may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted. However, no negotiation shall be held except with the lowest bidder, at the discretion of the purchaser. Any clarification submitted by a bidder in respect to its bid which is not in response to a request by the purchaser shall not be considered.

1.25 <u>Preliminary Examination</u>

- 1.25.1. The Purchaser shall examine the bids to confirm that all documents and technical documentation requested in **ITB Clause 1.9** have been provided, and to determine the completeness of each document submitted.
- 1.25.2. The Purchaser shall confirm that the following documents and information have been provided in the Bid. If any of these documents or information is missing, the offer shall be rejected.
 - (a) All the tenders received will first be scrutinized to see whether the tenders meet the basic requirements as incorporated in the tender enquiry document. The tenders, who do not meet the basic requirements, will be treated as non-responsive and ignored. The following are some of the important points, for which a tender may be declared as non-responsive and will be ignored, during the initial scrutiny:

i	The Bid is unsigned
ii	
	The Bidder is not eligible
iii	The Bid validity is shorter than the required period
İ۷	The Bidder has quoted for goods manufactured by a different firm without the required
	authority letter from the proposed manufacturer

		Bidder has not agreed to give the required performance security	
,	٧i	The goods quoted are sub-standard, not meeting the required specification, etc.	
\	/ii	Against the Requirement (Scope of supply) the bidder has not quoted for the entire	
		requirement as specified in Chapter 4	
٧	iii′	The bidder has not agreed to some essential condition(s) incorporated in the tender.	

(b) Bid Form and Price Schedule Form, in accordance with ITB Clause1.10. In case of two-bid system these forms shall be examined after opening of the Price Bids of the technically qualified bidders.

1.26 Responsiveness of Bids

1.26.1. Prior to the detailed evaluation, the purchaser will determine the substantial responsiveness of each bid to the bidding documents. For purposes of this clause, a substantive responsive bid is one, which conforms to all terms and condition of the bidding documents without material deviations, reservations or omissions. A material deviation, reservation or omission is one that:

(a)	affects in any substantial way the scope, quality, or performance of the Goods and Related		
	Services specified in the Tender; OR		
(b)	limits in any substantial way, inconsistent with the Bidding Documents, the Purchaser's		
	rights or the Bidder's obligations under the Proposed Contract; OR		
(c)	if rectified, would unfairly affect the competitive position of other bidders presenting		
	substantially responsive bids.		

- 1.26.2. The Purchasers' determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 1.26.3. If a bid is not substantially responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation or omission.

1.27 Non-Conformity, Error and Omission

- 1.27.1. Provided that a Bid is substantially responsive, the Purchaser may waive any non-conformities or omissions in the Bid that do not constitute a material deviation.
- 1.27.2. Provided that a bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify non-material non-conformities or omissions in the bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.
- **1.27.3.** Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:
 - (a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;
 - (b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
 - (c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.
- 1.27.4. Provided that a bid is substantially responsive, the purchaser may request that a bidder may confirm the correctness of arithmetic errors as done by the purchaser within a target date. In case, no reply is received then the bid submitted shall be ignored and its Bid Security may be forfeited.

1.28 Examination of Terms & Conditions, Technical Evaluation

1.28.1. The Purchaser shall examine the Bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation.

- 1.28.2. The Purchaser shall evaluate the technical aspects of the Bid submitted in accordance with ITB Clause 1.14, to confirm that all requirements specified in Chapter 4 of the Bidding Documents have been met without any material deviation or reservation.
- 1.28.3. If, after the examination of the terms and conditions and the technical evaluation, the Purchaser determines that the Bid is not substantially responsive in accordance with ITB Clause 1.26, it shall reject the Bid.

1.29 Conversion to Single Currency

To facilitate evaluation and comparison, the Purchaser will convert all bid prices expressed in the amounts in various currencies in which the bid prices are payable to Indian Rupees at the selling exchange rate established by any bank in India as notified in the Newspapers on the date of bid opening in the case of single bid and the rates prevalent on the date of opening of the Price Bids in case of two-bid. For this purpose, exchange rate notified in www.rbl.org or any other website would be used by the purchaser.

1.30 Evaluation and comparison of bids

- 1.30.1. The Purchaser shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive.
- 1.30.2. To evaluate a Bid, the Purchaser shall only use all the factors, methodologies and criteria defined below. No other criteria or methodology will be used.
- 1.30.3. The bids shall be evaluated on the basis of final landing cost which shall be arrived as under:

(a) For Goods manufactured within India

i)	The price of the goods quoted Ex-works including taxes already paid.
ii)	GST and other taxes like LBT / Octroi etc. which will be payable on the goods if the contract is
	awarded.
iii)	The charges for inland transportation, insurance and other local services required for
	delivering the goods at the desired destination as specified in the price schedule form.
iv)	The installation, commissioning and training charges including any incidental services, if any
	as given in Scope of Supply (Chapter 4)

(b) For Goods manufactured abroad

i)	The price of the goods, quoted on FCA (named Airport abroad) or FOB (named port of			
	shipment), as specified in the price schedule form.			
ii)	The charges for insurance and transportation of the goods to the port / place of destination			
	i.e. CIP/CIF Price.			
iii)	The agency commission charges payable to Indian agent in Indian rupees, if any.			
iv)	The installation, commissioning and training charges including any incidental services, if any			

- 1.30.4. The comparison between the indigenous and the foreign offers shall be made on FOR destination basis and CIF / CIP basis respectively. However, the CIF / CIP prices quoted by any foreign bidder shall be loaded further as under:-
 - (i) Towards customs duty and other statutory levies—as per applicable rates.
 - (ii) Towards custom clearance, inland transportation etc.- 2% of the CIF / CIP value.

Note: Where there is no mention of packing, forwarding, freight, insurance charges, taxes etc. such offers shall be rejected as incomplete.

- 1.30.5. In case of Purchase of many items against one tender, which are not inter- dependent or, where compatibility is not a problem, normally the comparison would be made on ex-works, (in case of indigenous items) and on FOB / FCA (in the case of imports) prices quoted by the firms for identifying the lowest quoting firm for each item.
- 1.30.6. Orders for Imported Goods need not necessarily be on FOB / FCA basis rather it can be on the basis of any of the Incoterms latest edition as may be amended from time to time by the ICC or any other designated authority and favourable to IITM.
- 1.30.7. Wherever the price quoted on FOB / FCA and CIF / CIP basis are the same, the Contract would be made on CIF / CIP basis only.
- 1.30.8. The GCC and the SCC shall specify the mode of transport i.e. whether by air / ocean / road / rail.

1.31 Comparison of Bids

The Purchaser shall compare all substantially responsive bids to determine the lowest valuated bid, in accordance with ITB Clause1.30.

1.31.1 This Institute is following and abide with the Public Procurement (Preference to Make in India), Order 2017, DIPP, MoCl Order No. P-45021/2/2017-B.E.II dated 15th June 2017 and subsequent amendments to the order. Accordingly preference will be given to the Make in India products while evaluating the bids, however, it is the sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India product along with respective documentary evidence as stipulated in the aforesaid order in the technical bid itself.

1.32 Contacting the Purchaser

- 1.32.1. Subject to ITB Clause 1.24, no Bidder shall contact the Purchaser on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.
- 1.32.2. Any effort by a Bidder to influence the Purchaser in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidder's bid.

1.33 Post qualification

- 1.33.1. In the absence of pre-qualification, the Purchaser will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in **ITB Clause 1.13**.
- 1.33.2. The determination will take into account the Eligibility & Qualification criteria listed in the bidding documents and will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the Purchaser deems necessary and appropriate.
- 1.33.3. An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid.

F. Award of contract

1.34 Negotiations

Normally, there shall not be any negotiation. Negotiations, if at all, shall be an exception and only in the case of items with limited source of supply. Negotiations shall be held with the lowest evaluated responsive bidder. Counter offers tantamount to negotiations, shall be treated at par with negotiations.

1.35 Award Criteria

Subject to ITB Clause 1.37, the Purchaser will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily. The details of the award would be hosted on the website of the Purchaser.

1.36 <u>Purchaser's right to vary Quantities at Time of Award or later</u>

The Purchaser reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the Chapter 4 without any change in unit price or other terms and conditions. Further, at the discretion of the purchaser, the quantities in the contract may be enhanced by 25% within the delivery period.

1.37 Purchaser's right to accept any Bid and to reject any or all Bids

The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders.

1.38 Notification of Award

- 1.38.1. Prior to the expiration of the period of bid validity, the Purchaser will notify the successful bidder in writing by registered letter or by cable or telex or fax or e mail that the bid has been accepted and a separate purchase order shall follow through post.
- 1.38.2. Until a formal contract is prepared and executed, the notification of award should constitute a binding contract.

1.38.3. Upon the successful Bidder's furnishing of the signed Contract Form and Performance Security pursuant to ITB Clause 1.41, the Purchaser will promptly notify each unsuccessful Bidder and discharge its bid security.

1.39 Signing of Contract

- 1.39.1. Promptly after notification, the Purchaser shall send the successful Bidder the Purchase Order.
- 1.39.2. Within fourteen (14) days of date of the Purchase Order, the successful Bidder shall enter into Contract Agreement as per Chapter 7.

1.40 Order Acceptance

- 1.40.1. The successful bidder should submit Order acceptance within 14 days from the date of issue of Purchase Order, failing which it shall be presumed that the vendor is not interested and his bid security is liable to be forfeited pursuant to ITB Clause1.15.11.
- 1.40.2. The order acceptance must be received within 14 days. However, the Purchaser has the powers to extend the time frame for submission of order acceptance and submission of Performance Security (PS). Even after extension of time, if the order acceptance / PS are not received, the contract shall be cancelled and limited tenders irrespective of the value shall be invited from the responding firms after forfeiting the bid security of the defaulting firm, where applicable, provided there is no change in specifications. In such cases the defaulting firm shall not be considered again for re-tendering in the particular case.

1.41 Performance Security

Within 14 days of receipt of the notification of award / Purchase Order as per the GCC Clause 2.12, the Supplier shall furnish Performance Security for the amount specified in SCC, valid for the time 60 days after the warranty period.

CONDITIONS OF CONTRACT

A. GENERAL CONDITIONS OF CONTRACT

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Note: The General Conditions of Contract shall form the part of Purchase Order / Contract.

A.GENERAL CONDITIONS OF CONTRACT

2.1. <u>Definitions</u>

The following words and expressions shall have the meanings hereby assigned to them:

Sr. No.	Words / Expressions	Meaning
(a)	Contract	The Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
(b)	Contract Documents	The documents listed in the Contract Agreement, including any amendments thereto.
(c)	Contract Price	The price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
(d)	Day	Calendar day
(e)	Completion	The fulfilment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
(f)	GCC	The General Conditions of Contract.
(g)	Goods	All of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract
(h)	Services	The services incidental to the supply of the goods, such as transportation, insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Contract.
(i)	SCC	The Special Conditions of Contract.
(j)	Subcontractor	Any natural person, private or government entity, or a combination of the above, to which any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
(k)	Supplier	The natural Person, Private or Government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.
(I)	Purchaser	The Director, The Indian Institute of Tropical Meteorology (IITM), Pune an autonomous body under Ministry of Earth Sciences (MoES), Govt. of India. as specified in SCC
(m)	The final destination	The place named in the SCC.

2.2 <u>Contract Documents</u>

- 2.2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.
- 2.2.2 Successful bidder shall have to enter into Contract Agreement on Rs.500/- non judicial stamp paper as per Contract Form given in Chapter 7 within 14 days of placement of Purchase Order having value above Rs. 25 lakh or equivalent amount in Foreign Currency.

2.3 Fraud and Corruption

The purchaser requires that bidders, suppliers, contractors and consultants, if any, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy,

(a) The terms set forth below are defined as follows:

I	Corrupt practice	The offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution
II	Fraudulent practice	A misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract
III	Collusive practice	A scheme or arrangement between two or more bidders, with or without

		the knowledge of the Borrower, designed to establish bid prices at artificial, non-competitive levels
IV	Coercive practice	Harming or threatening to harm, directly or indirectly, persons or their
		property to influence their participation in the procurement process or
		affect the execution of a contract

⁽b) The purchaser will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.

2.4 Joint Venture, Consortium or Association/Amalgamation/Acquisition, Patent Indemnity etc.

If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.

2.4.1. Amalgamation/Acquisition etc.:

In the event the Manufacturer/Supplier proposes for amalgamation, acquisition or sale its business to any firm during the contract period, the Buyer/Successor of the Principal Company are liable for execution of the contract and also fulfilment of contractual obligations i.e. supply, installation, commissioning, warranty, maintenance/replacement of spares accessories etc. You may confirm this condition while submitting the bid.

2.4.2 Indemnity Bond

In order to safeguard the interest of IITM, the supplier should submit Indemnity Bond as given in Chapter-8 (Annexure-J) on Rs.500/- non judicial stamp paper within 14 days of placing of the order for Purchase Order having value above Rs. 25 lakh or equivalent amount in Foreign Currency.

2.4.3 Patent Indemnity

a) The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 2.4.3(a), indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

(l)	the installation of the Goods by the Supplier or the use of the Goods in India		
	AND		
(II)	the sale in any country of the products produced by the Goods		

b) If any proceedings are brought or any claim is made against the Purchaser, the Purchaser shall promptly give the Supplier a notice thereof and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claims.

2.5 Scope of Supply

Scope of Supply (i.e. the Goods to be supplied and Related Services to be performed) shall be as specified in the Chapter-4 clause 4.2

2.6 Suppliers' Responsibilities

The Supplier shall supply all the Goods and perform all Related Services included in the Scope of Supply-Clause 2.5 of the GCC and the Delivery &Completion Schedule, as per GCC Clause 2.15 relating to delivery and document.

2.7 Contract price

Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid.

2.8 Copy Right

The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party

2.9 Application

These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

2.10 Standards

The Goods supplied and services rendered under this Contract shall conform to the standards mentioned in the Technical Specifications and Schedule of Requirements, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin and such standards shall be the latest issued by the concerned institution.

2.11 <u>Use of Contract Documents and Information</u>

- 2.11.1 The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance.
- 2.11.2 The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information enumerated above except for purposes of performing the Contract.
- 2.11.3 Any document, other than the Contract itself, enumerated above shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

2.12 <u>Performance Security (PS)</u>

- 2.12.1 Within 14 days of receipt of the notification of award of contract / Purchase Order, the Supplier shall furnish performance security in the amount specified in SCC, valid till 60 days after the warranty period. Alternatively, the PS may also be submitted at the time of release of final payment in cases where part payment is made against delivery & part on installation. The PS, where applicable, shall be submitted in advance for orders where full payment is to be made on Letter of Credit (LC) or on delivery. In this case, submission of PS at the time of negotiation of documents through Bank would be stipulated as a condition in the LC and the BS should be kept valid till such time the PS is submitted.
- 2.12.2 The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 2.12.3 The Performance Security shall be denominated in Indian Rupees for the offers received for supplies within India and denominated in the currency of the contract in the case of offers received for supply from foreign countries.
- 2.12.4 In the case of imports, the PS may be submitted either by the principal or by the Indian agent and, in the case of purchases from indigenous sources, the PS may be submitted by either the manufacturer or their authorized dealer / bidder.
- 2.12.5 The Performance security shall be in one of the following forms:

(a)	A Bank guarantee or stand-by Letter of Credit issued by a Nationalized / Scheduled bank			
	located in India or a bank located abroad in the form provided in the bidding documents.			
	OR			
(b)	A Banker's cheque or Account Payee demand draft in favour of the purchaser.			

2.12.6 The performance security will be discharged by the Purchaser and returned to the Supplier not later than 60 days following the date of completion of the Supplier's performance obligations, including any warranty obligations, unless specified otherwise in SCC, without levy of any interest.

- 2.12.7 In the event of any contract amendment, the supplier shall, within 14 days of receipt of such amendment, furnish the amendment to the performance security, rendering the same valid for the duration of the contract, as amended for further period of 60 days thereafter.
- 2.12.8 The order confirmation should be received within 14 days from the date of notification of award. However, the Purchaser has the powers to extend the time frame for submission of order confirmation and submission of Performance Security (PS). Even after extension of time, if the order acceptance and PS are not received, the contract shall be cancelled and limited tenders irrespective of the value would be invited from the responding firms after forfeiting the bid security of the defaulting firm, where applicable provided there is no change in specifications. In such cases the defaulting firm would not be considered again for re-tendering in the particular case.
- 2.12.9 Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, and then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

2.13 Installation, Commissioning, Demonstration, Inspections and Tests

Bidder shall be responsible for Installation, Commissioning, Demonstration, Inspections and Tests wherever applicable and for after sales service during the warranty and thereafter as specified in Chapter 4.

2.14 Packing

- 2.14.1. The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
- 2.14.2. The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, if any, specified in SCC and in any subsequent instructions ordered by the Purchaser.

2.15 **Delivery and Documents**

2.15.1. Delivery of the Goods and completion and related services shall be made by the Supplier in accordance with the terms specified by the Purchaser in the contract. The details of shipping and/or other documents to be furnished by the supplier are as given below or /and as specified in SCC.

Details of Shipping and other Documents to be furnished by the Supplier are :						
A)	For goods manufactured or supplied from within India					
	Within 24 hours of dispatch, the supplier shall notify the purchaser the complete details of dispatch and also supply following documents by registered post / speed post and copies thereof by FAX/email					
(a)	Three copies of Supplier's Invoice indicating, inter-alia description and specification of the goods, quantity, unit price, total value					
(b)	Packing list					
(c)	Certificate of country of origin					
(d)	Insurance certificate, if required under the contract					
(e)	Railway receipt/Consignment note					
(f)	Manufacturer's warrantee certificate and in-house inspection certificate, if any					
(g)	Inspection certificate issued by purchaser's inspector, if any					
(h)	Any other document(s) as and when required in terms of the contract					
NOT	E:					
1	The nomenclature used for the item description in the invoice(s), packing list(s) and the delivery					
	note(s) etc. should be identical to that used in the contract. The dispatch particulars including					
	the name of the transporter should also be mentioned in the Invoice(s).					
2	The above documents should be received by the Purchaser before arrival of the Goods and, if					
	not received, the Supplier will be responsible for any consequent expenses.					
B)	For goods manufactured or supplied from abroad					
	Within 24 hours of dispatch, the supplier shall notify the purchaser the complete details of					

	dispatch and also supply following documents by Registered Post / courier and copies thereof by FAX.				
(a)	Three copies of supplier's Invoice giving full details of the goods including quantity, value, etc.				
(b	Packing list				
(c)	Certificate of country of origin				
(d)	Manufacturer's warrantee and Inspection certificate, if any				
(e)	Inspection certificate issued by the Purchaser's Inspector, if any				
(f)	Insurance Certificate, if required under the contract				
(g)	Name of the Vessel / Carrier				
(h)	Bill of Lading / Airway Bill				
(i)	Port of Loading				
(j)	Date of Shipment				
(k)	Port of Discharge & expected date of arrival of goods				
(I)	Any other document(s) as and when required in terms of the contract				
NOT	NOTE:				
1	The nomenclature used for the item description in the invoice(s), packing list(s) and the delivery				
	note(s) etc. should be identical to that used in the contract. The dispatch particulars including				
	the name of the transporter should also be mentioned in the Invoice(s).				
2	The above documents should be received by the Purchaser before arrival of the Goods and, if				
	not received, the Supplier will be responsible for any consequent expenses.				
	The clearing of the consignment at Mumbai Airport shall be done by our authorized Custom				
	House Agents (CHA). The corresponding shipping documents may be forwarded to them				
	accordingly. It is advised to give us and our CHA, a pre-alert before the consignment is				
	dispatched. If there is delay in clearing of the consignment for <u>not</u> giving timely pre-alert then				
	demurrage (Ware house charges), if applicable has to be refunded to us.				

- 2.15.2. The terms FOB, FCA, CIF, CIP etc. shall be governed by the rules prescribed in the current edition of the Incoterms published by the International Chambers of Commerce (ICC), Paris.
- 2.15.3. The mode of transportation shall be as specified in SCC.
- 2.15.4. The Bidders may please note that the delivery of the system should be strictly within delivery schedule mentioned in the Chapter-4 / Purchase Order.
- 2.15.5. Goods should not be dispatched until the vendor receives a firm Purchase Order

2.16 Insurance

- 2.16.1. Indigenous goods, the Goods supplied under the Contract shall be fully insured in Indian Rupees against any loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in SCC.
- 2.16.2. Where delivery of the goods is required by the purchaser on CIF / CIP basis for imported goods or FOR destination for Indigenous goods, the supplier shall arrange and pay for Marine / Transit Insurance, naming the purchaser as beneficiary and initiate & pursue claims till settlement, in the event of any loss or damage.
- 2.16.3. Where delivery is on FOB or FCA basis for imported goods or FOR dispatch station for indigenous goods, then insurance would be the responsibility of the purchaser.
- 2.16.4. The equipment to be supplied will be insured by the supplier against all risks of loss or damage from the date of shipment till such time it is delivered at IITM site in case of Rupee transaction
- 2.16.5. With a view to ensure that claims on insurance companies, if any, are lodged in time, the Bidders and / or the Indian agent shall be responsible for follow up with their principals for ascertaining the dispatch details and informing the same to the Purchaser and he shall also liaise with the Purchaser to ascertain the arrival of the consignment after clearance so that immediately thereafter in his presence the consignment could be opened and the insurance claim be lodged, if required, without any loss of time. Any delay on the part of the Bidder / Indian Agent would be viewed seriously and he shall be directly responsible for any loss sustained by the Purchaser on the event of the delay.

2.17 <u>Transportation</u>

2.17.1. Where the Supplier is required under the Contract to deliver the Goods on FOB basis, transport of the Goods, up to and including the point of putting the Goods on board the vessel at the specified

port of loading, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract price. Where the Supplier is required under the Contract to deliver the Goods on FCA basis, transport of the Goods and delivery into the custody of the carrier at the place named by the Purchaser or other agreed point shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract price.

- 2.17.2. Where the Supplier is required under the Contract to deliver the Goods CIF or CIP, transport of the Goods to the port of destination or such other named place of destination in the Purchaser's country, as shall be specified in the Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.
- 2.17.3. In the case of supplies from within India, where the Supplier is required under the Contract to transport the Goods to a specified destination in India, defined as the Final Destination, transport to such destination, including insurance and storage, as specified in the Contract, shall be arranged by the Supplier, and the related costs shall be included in the Contract Price.
- 2.17.4. The clearing of the consignment at Mumbai Airport shall be done by our authorized Custom House Agents (CHA) for CIP / CIF consignments. The details of CHA will be given in the Purchase Order. The corresponding shipping documents may be forwarded to them accordingly. It is advised to give us and our CHA, a pre-alert before the consignment is dispatched. If there is delay in clearing of the consignment for <u>not</u> giving timely pre-alert then demurrage (Ware house charges), if applicable has to be refunded to us by the Supplier / Indian Agent or the same will be deducted from any payment due to Supplier / Indian Agent against this order or any other Purchase order.

2.18 <u>Incidental Services</u>

The supplier may be required to provide any or all of the services, including training, if any, as specified in **Chapter 4: Clause-4.2.**

2.19 Spare Parts

The Supplier shall be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- (a) Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
- (b) In the event of termination of production of the spare parts:
 - (i) Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and
 - (ii) Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested.

2.20 Warranty

- a) The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- b) The Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in India.
- c) Unless otherwise specified in the SCC, the warranty shall remain valid for Twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the SCC, or for Eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.
- d) The warranty on the associated software should cover providing of upgraded version/s, if any, released during the warranty period free of cost.
- e) The bidder shall assure the supply of spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of 10 years from the date of supply of equipment on payment on approved price list basis.

- f) The equipment must be supported by a Service Centre manned by the principle vendor's technical support engineers during Warranty period as well as CAMC period. The support through this Centre must be available 24 hours in a day, seven days a week and 365 days a year. Also it should be possible to contact the Principal's vendor support Centre on a toll free number/web/mail.
- g) An undertaking from the manufacturer is required in this regard stating that they would facilitate the Bidder, Service provider on regular basis with technology / product updates & extend support for the warranty as well.
- h) Supplier will have to arrange for all the testing equipment & tools required for installation, testing & maintenance etc.
- i) The Principal Supplier must have a local logistics support by maintaining a local spares depot in the country of deployment of the equipment. This is to ensure immediate delivery of spares parts from Principal Supplier of equipment to its channel partner/system integrator.
- j) Details of onsite warranty, Name of Agency that shall maintain during warranty and undertake Annual Maintenance Contract/Comprehensive Service Maintenance Contract beyond warranty shall be given in the offer. In case of foreign quote, the name of Indian Agent who shall maintain during warranty and AMC beyond warranty shall be given in the Technical Offer.
- k) The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- I) Upon receipt of such notice, the Supplier shall, within 21 days, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- m) If having been notified, the Supplier fails to remedy the defect within 21 days; the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.
- n) In case the Equipment / System remains non-operational or performs below the desired level for more than 1 week after intimation of the fault in the Equipment / System then Warranty period shall be extended for further period for which Equipment / System remained non-operational or performed below the desired level, without prejudice to any other terms and conditions of the Contract. In addition to that penalty will be imposed and will be recovered from Performance Security Deposit or from any amount due to the supplier as specified in warranty clause of Appendix-1.
- The defects, if any, during the warranty period are to be rectified free of charge by arranging free replacement wherever necessary.
- p) In case of any replacement during the warranty period the same shall be made free of cost i.e. DDP for import replacement and/or free delivery to IITM for indigenous replacement. All the duties / taxes relating to these replacements have to be borne by the supplier. Dispatch details of such warranty replacements have to be informed in advance to enable us to provide documents for custom clearance.
- q) Any replacements during warranty period should be free of cost. If the defective item has to be sent back to the Principal Supplier, for such replacements / returns to the Principal Supplier / Indian Agent has to bear documentation charges. If the cost of replacement is upto Rs. 5 Lakh then the documentation charges will be Rs. 5,000 and above Rs. 5 Lakh it is Rs. 10,000. Such charges have to be paid in favour of The Director, IITM, Pune. These charges are only for documentation. Any charges regarding packing, forwarding, freight, insurance, etc. should be borne by the Principal supplier / Indian Agent for returning of defective items. In other words, any warranty replacement has to be done immediately/within a week (7 days) without expecting IITM to export the defective items to Principal supplier for repair/replacements. All charges involved for re-export of defective items have to be borne by Principal supplier / Indian Agent.

2.21 Terms of Payment

- 2.21.1. The method and conditions of payment to be made to the Supplier under this Contract shall be as specified in the SCC.
- 2.21.2. The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the Services performed, and by documents, submitted pursuant to Delivery and document Clause of the GCC and upon fulfilment of other obligations stipulated in the contract.
- 2.21.3. Payments shall be made promptly by the Purchaser but in no case later than thirty (30) days after submission of the Invoice or claim by the Supplier.
- 2.21.4. Payment shall be made in currency as indicated in the contract.

2.22 Change Orders and Contract Amendments

2.22.1. The Purchaser may at any time, by written order given to the Supplier pursuant to Clause on Notices of the GCC make changes within the general scope of the Contract in any one or more of the following:

a)	Drawings, designs, or specifications, where Goods to be furnished under the Contract are to			
	be specifically manufactured for the Purchaser;			
b)	The method of shipping or packing;			
c)	The place of delivery; and/or			
d)	The Services to be provided by the Supplier.			
e)	The delivery schedule.			

- 2.22.2. If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be ascertained within fifteen (15) days from the date of the Supplier's receipt of the Purchaser's change order.
- 2.22.3. No variation or modification in the terms of the contract shall be made except by written amendment signed by the parties.

2.23 Assignment

The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

2.24 Subcontracts

The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the Supplier from any liability or duties or obligation under the Contract.

2.25 Extension of time

- 2.25.1. Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the Delivery schedule specified by the Purchaser.
- 2.25.2. If at any time during performance of the Contract, the Supplier or its sub-contractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the Supplier's time for performance with or without penalty, in which case the extension shall be ratified by the parties by amendment to the Contract.
- 2.25.3. Except as provided under the Force Majeure clause of the GCC, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of penalty pursuant to Penalty Clause of the GCC unless an extension of time is agreed upon pursuant to above clause without the application of penalty clause.

2.26 Penalty clause

Subject to GCC Clause on Force Majeure, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services or contract value for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the Percentage specified in SCC. Once the maximum is reached, the Purchaser may consider termination of the Contract pursuant to GCC Clause on Termination for Default. The SCC shall also indicate the basis for ascertaining the value on which the penalty shall be applicable.

- 1) For Supply, Installation and commissioning work :If the supplier fails to complete the work within specified period mentioned in the tender, penalty will be imposed of 0.5% per week up to 10% max of purchase order value.
- 2) During warranty period: Since the UPS is used for critical applications, penalty shall be imposed due to delay in recovering the system to normal working conditions. The maximum response time for a maintenance complaint (i.e. time required for Vendor's maintenance engineers to report to the installations site after a request call / fax /emails made or letter is written) shall not exceed 4 hours, failing to which penalty will be imposed of 0.5% for every week delay up to 10% of the total contract value and will be deducted from any bill / Performance Security Deposit / Performance Bank Guarantee.

2.27 Termination for Default

2.27.1. The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

(a)	If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the			
	contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause			
	on Extension of Time;			
(b)	If the Supplier fails to perform any other obligation(s) under the Contract			
I	If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent or			
	collusive or coercive practices as defined in GCC Clause on Fraud or Corruption in competing			
	for or in executing the Contract.			

2.27.2. In the event the purchaser terminates the contract in whole or in part, he may take recourse to any one or more of the following action:

(a)	The Performance Security/EMD will be forfeited;			
(b)	The Purchaser may procure, upon such terms and in such manner as it deems appropriate,			
	Goods similar to those undelivered, and the supplier shall be liable for all available actions			
	against it in terms of the contract.			
I	However, the supplier shall continue to perform the contract to the extent not terminated.			

2.28 Force Majeure

- 2.28.1. Notwithstanding the provisions of GCC Clauses relating to Extension of Time, Penalty and Termination for Default the Supplier shall not be liable for forfeiture of its Performance Security, Liquidated Damages or Termination for Default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 2.28.2. For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- 2.28.3. If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof within 21 days of its occurrence. 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.

2.28.4. If the performance in whole or in part or any obligations under the contract is prevented or delayed by any reason of Force Majeure for a period exceeding 60 days, either party may at its option terminate the contract without any financial repercussions on either side.

2.29 <u>Termination for Insolvency</u>

The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the Purchaser.

2.30 Termination for Convenience

- 2.30.1. The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- 2.30.2. The Goods that are complete and ready for shipment within 30 days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:

(a)	To have any portion completed and delivered at the Contract terms and prices ;		
	and / or		
(b)	To cancel the remainder and pay to the Supplier an agreed amount for partially completed		
	Goods / Services and for materials and parts previously procured by the Supplier.		

2.31 Settlement of Disputes

- 2.31.1. The Purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 2.31.2. If, after twenty-one (21) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract.
- 2.31.3. The dispute settlement mechanism / arbitration proceedings shall be concluded as under:
 - (a) In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director The Indian Institute of Tropical Meteorology (IITM), Pune and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to the Contract.
 - (b) In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.
- 2.31.4. The venue of the arbitration shall be the place from where the Purchase Order or Contract is issued.
- 2.31.5. Notwithstanding any reference to arbitration herein,
 - (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree;

 (b) the Purchaser shall pay the Supplier any monies due the Supplier
 - (b) the Purchaser shall pay the Supplier any monies due the Supplier.

2.32 Governing Language

The Contract shall be written in English language which shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the English language only.

2.33 Applicable Law / Jurisdiction

The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction as specified in SCC.

2.34 Notices

- 2.34.1. Any notice given by one party to the other pursuant to this contract / order shall be sent to the other party in writing or by cable, telex, FAX, e-mail or / and confirmed in writing to the other party's address specified in the SCC.
- 2.34.2. A notice shall be effective when delivered or on the notice's effective date, whichever is later.

2.35 Taxes and Duties

- 2.35.1. For goods manufactured outside India, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside India.
- 2.35.2. For goods Manufactured within India, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred till its final manufacture / production.
- 2.35.3. If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in India, the Purchaser shall make its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.
- 2.35.4. All payments due under the contract shall be paid after deduction of statutory levies (at source) (like ESIC, IT, etc.) wherever applicable.
- 2.35.5. IITM is exempted from paying LBT & hence supplier supplying from outside Pune Municipal limits should quote prices excluding LBT.

2.36 Right to use Defective Goods

If after delivery, installation and within commissioning & acceptance and within warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation.

2.37 Protection against Damage

The system shall not be prone to damage during power failures and trip outs. The normal voltage and frequency conditions available at site as under:

- (a) Voltage 230 volts Single phase or 415 Volt for 3 phase (±10%)
- (b) Frequency 50 Hz.

2.38 Site preparation and installation

The Purchaser is solely responsible for the construction of the equipment sites unless otherwise specified in Chapter 4 in compliance with the technical and environmental specifications defined by the Supplier. The Purchaser will designate the installation sites before the scheduled installation date to allow the Supplier to perform a site inspection to verify the appropriateness of the sites before the installation of the Equipment, if required. The supplier shall inform the purchaser about the site preparation, if any, needed for installation, of the goods at the purchaser's site immediately after notification of award / contract. For the installation site, please refer the clause of Final Destination as specified in Chapter 2 (Special Contract Conditions).

2.39 Integrity Pact

- 2.39.1. All organizations under MOES including IITM have to adopt an Integrity pact (IP) to ensure transparency, equity and competitiveness in major Public procurement having procurement value above Rs.5 Crore. The integrity pact envisages an agreement between the prospective bidders / vendors with the buyer committing the persons / officials of both the parties with the aim not to exercise any corrupt influence on any aspect of the contract. Only those bidders / vendors, who are willing to enter in to such an integrity pact with the Purchaser, would be competent to participate in the bidding.
- 2.39.2. Panel of Independent External Monitors (IEMs) provided by MoES with the approval of CVC.
- 2.39.3. The integrity Pact would be effective from the date of invitation of bids till complete execution of the contract.
- 2.39.4. The bidder is required to sign Pre-Contract Integrity Pact as specified in Chapter 2 (Special Contract Conditions). The format of Integrity Pact is as given in **Chapter 8.**

B. SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC Clause	Special Condition of Contract (SCC)			
GCC 2.1.1(I)	The Purchaser is:			
	THE DIRECTOR INDIAN INSTITUTE OF TROPICAL METEOROLOGY Dr.HOMI BHABHA ROAD, PASHAN, PUNE-411 008 (MAHARASHTRA)- INDIA			
GCC 2.1.1(m)				
GCC 2.12.1	The amount of the Performance Security shall be 10% of the contract value, valid up to 60 days after the date of completion of contract obligations including warranty obligations.			
GCC 2.14.2	The marking and documentation within and outside the packages shall be marked with proper paint / indelible ink.			
	(a) Each package should have a packing list within it detailing the Part No.(s), description, quantity etc.			
	(b) Outside each package, the Contract No., the name and address of the Purchaser and the Final destination should be indicated on all sides and top.			
	(c) Each package should be marked as $1/x$, $2/x$, $3/x$ x/x , where "x" is the total No. of packages contained in the consignment.			
	(d) All the sides and top of each package should carry an appropriate indication / label / stickers indicating the precautions to be taken while handling / storage.			
GCC 2.15.3	(a) In case of supplies from within India, the mode of transportation shall be by Air / Rail / Road.			
	(b) In case of supplies from abroad, the mode of transportation shall be by Air/Sea .			
GCC 2.16.1	The Insurance shall be for an amount equal to 110% of the CIF or CIP value of the contract from "warehouse to warehouse (final destination)" on "all risk basis" including strikes, riots and civil commotion, in addition to storage policy for 60 days is advised so as to ensure the inspection by the Indian Agent at the time of opening the packages.			
GCC 2.20 (c)	The period of validity of the Warranty shall be: The warranty shall remain valid for Twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination or for Eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.			
GCC 2.21.1	The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:			
	A Payment for Goods supplied from abroad:			
	Payment of foreign currency portion shall be made in currency of the Contract in th following manner:			
	(a) On Shipment: Sixty (60%) percent of the Contract Price of the Goods shipped shall be paid through irrevocable letter of credit opened in favour of the Supplier in a bank in its country, upon submission of documents specified in GCC Clause 2.15. Successful bidder / supplier must have to submit the detailed FAT report before shipment of the goods to the buyer.			
	(b) On Acceptance: Thirty (30%) percent of the Contract Price of Goods received shall be paid within thirty (30) days of receipt of the Goods and successful installation & commissioning upon submission of claim supported by the acceptance certificate issued by the Purchaser.			
	(c) Ten (10%) percent of the Contract Price of Goods received, upon acceptance of Performance Security / Performance Bank Guarantee submitted by supplier.			
	(d) The LC for 100% value of the contract shall be established after deducting the agency commission payable if any, to the Indian agent from the FOB / FCA value.			

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(e) The LC will be confirmed at the suppliers cost, if requested specifically by the supplier hank charges abroad shall be to the account of the beneficiary i.e. supplier bank charges in India shall be to the account of the opener i.e. purchaser. I requested to be extended/ reinstated for reasons not attributable to the purchase charges thereof would be to the suppliers' account. Payment of local currency shall be made in Indian Rupees within thirty (30) days of presentation of supported by a certificate from the Purchaser declaring that the Goods have delivered and that all other contracted Services have been performed.			
	В	Payment for Goods and Services supplied from India:	
	(-)	The payment shall be made in Indian Rupees, as follows:	
	(a)	On shipment: Sixty (60%) percent of the Contract Price shall be paid on receipt of the Goods and upon submission of the documents specified in GCC Clause 2.15 Successful bidder / supplier must have to submit the detailed FAT report before shipment of the goods to the buyer.	
	(b)	On Acceptance: The remaining Thirty (30%) percent of the Contract value shall be paid to the Supplier within thirty (30) days after the date of the acceptance certificate issued by the Purchaser.	
	(c)	Ten (10%) percent of the Contract Price of Goods received, upon acceptance of Performance Security / Performance Bank Guarantee.	
	(d)	In case of supplies where installation & commissioning is not required payment will be	
		made within 30 days from receipt of items by purchaser as per purchase order contract.	
	(e)	E-Payment: All payments, IITM prefers to make Electronic Transfers (RTGS) / (NEFT)	
	C	Payment for Services (Comprehensive Annual Maintenance Contract)	
	The p	payment shall be made in Indian Rupees, as follows:	
	(a)	Comprehensive Annual Maintenance Contract: Payment will be done on quarterly basis	
		on successful completion of each quarter with certification by the end user and submission of the required supporting documents along with performance Bank Guarantee from Indian nationalized bank for 10% of the total CAMC order value, to be valid for entire CAMC period and two months including extension if any. If no Bank Guarantee is given, the balance 10% will be paid after assessing, after sales service during CAMC period i.e. payment after CAMC period.	
	NOTE		
	>	All payments due under the Contract shall be paid after deduction of statutory levies at	
GCC 2.26.1		source (like ESIC, Income Tax, etc.), wherever applicable. As time is the essence of the contract, Delivery period mentioned in the Purchase Order	
GCC 2.20.1	(a)	should be strictly adhered to. Otherwise we will have to forfeit EMD/PS and also LD clause will be applicable /enforced	
	(b)	If the supplier fails to Supply, Install and Commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of 0.5% of order value per week of delay subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier	
	(c)	IITM reserves the right to cancel the order in case the delay is more than 10 weeks. Penalties, if any, will be deducted from the EMD/PS	
	(d)	The maximum amount of penalty shall be 10%.	
	(e)	The liquidated damages shall be levied on the delivered price of the delayed Goods or unperformed Services or contract value.	
	(f)	Penalty for Uptime during Warranty & CAMC: Overall uptime of the system shall be at least 95%. If there is a failure of the system for more than the criteria stipulated then the CAMC amount of 0.25% per day, for days it is down will be deducted, subjective to an upper ceiling of 10% of CAMC charges for that quarter. If the failure duration extends beyond one month then the contract may be terminated and cost of its repair from alternate source will be recovered from the "Contractor" and performance security may be forfeited. Maximum two weeks shutdown for annual maintenance shall not come under the clause. Radar down time due to external factors and severe natural calamity beyond human control shall exempt the criteria. This Penalty will be in addition to the Liquidated Damage Clause.	
GCC 2.33.1	The p	place of jurisdiction is Pune, India.	

GCC 2.34.1	For notices, the Purchaser's address is			
	THE DIRECTOR INDIAN INSTITUTE OF TROPICAL METEOROLOGY			
	Dr.HOMI BHABHA ROAD, PASHAN, PUNE-411 008 (MAHARASHTRA)- INDIA			
	Telephone #: 0091-20-25904200			
	Facsimile number: 0091-20- 2586-5142			
	E-mail address: psu.iitm@tropmet.res.in			
GCC 2.39.4	The integrity pact is to be signed. The details of the Independent External Monitors (IEMs) is as below;			
	1. Shri. Arun Kumar			
	Ex. Secretary, Oil Industry Development Board (OIDB), B-38, Vrindavan Apartment, Plot No. 1,			
	Sector 6, Dwarka, New Delhi -110 075			
	Email: kumararun 53@rediffmail.com			
	Mob.: 9810621113			
	2. Shri. Sushil Gupta			
	Ex. Chairman, Central Ground Water Board (CGWB) & Central Ground Water Authority (CGWA),			
	No. B 702, Aravali Height, Sector 21 C, Faridabad, Haryana			
	Pin - 121 001			
	Email: sushilanitagupta@yahoo.com			
	Mob.: 09999744061			
IMP Note	Director, IITM will be the final authority in any kind of disputes related to this Purchase Order and it will be binding on the supplier.			
	All the procurement rules and regulations of Govt. of India will be applicable and will			
	binding on the supplier.			
IMP Note	Period of CAMC for radar sets will be started after expiry of one year standard warranty of each radar and the same will be informed by IITM to the supplier in writing. The Institute will not be responsible for any payment due in absence of confirmation letter from this Institute for carrying out CAMC. IITM reserves the right for awarding of CAMC after assessing of the services & its performance provided during the warranty period.			
	Though the CAMC contract will be signed for four years, the CAMC will be awarded on yearly basis after expiry each year subject satisfactory performance during the period of CAMC certified by the End User.			
	However, IITM reserves the right to terminate the contract at any time by giving three month notice, if the performance of the system or the services rendered by the supplier is not four satisfactory.			

(To be filled by the bidder and enclosed with the Technical Bid)

SCHEDULE OF REQUIREMENT

The Schedule of Requirement must clearly specify the time frame required (Schedule) for delivery of goods and services to be completed by the bidder (in reference to Scope of Supply given in Clause-4.2 of Chapter-4) if the Contract is awarded for the offer / proposal submitted by the bidder in response to this Tender.

A)	Delivery	Schedule:
,		

r. No.	Brief Description of Goods and Services	Quantity & Unit	Delivery Schedule
	ery shall start from:		
	rom Abroad		
Goods fi	rom India		
Time fro	me required for conducting installation	commissioning of	the equipment secontary
training, e	me required for conducting installation, etc. after the arrival of consignment or be	fore dispatch of equi	
training, e	etc. after the arrival of consignment or be	fore dispatch of equi	pment:
training, e	etc. after the arrival of consignment or be Activity	fore dispatch of equi	pment:
Sr. No.	Activity Site Preparation (if required) Installation & Commissioning Acceptance Test (Factory Acceptance Test, and Site	fore dispatch of equi	pment:
Sr. No. 1	Activity Site Preparation (if required) Installation & Commissioning Acceptance Test (Factory Acceptance Test, and Site Acceptance Test) Training (Factory training, Site	fore dispatch of equi	pment:
Sr. No. 1 2	Activity Site Preparation (if required) Installation & Commissioning Acceptance Test (Factory Acceptance Test, and Site Acceptance Test)	fore dispatch of equi	pment:
Sr. No. 1 2 3	Activity Site Preparation (if required) Installation & Commissioning Acceptance Test (Factory Acceptance Test, and Site Acceptance Test) Training (Factory training, Site	fore dispatch of equi	pment:
Sr. No. 1 2 3 4	Activity Site Preparation (if required) Installation & Commissioning Acceptance Test (Factory Acceptance Test, and Site Acceptance Test) Training (Factory training, Site training)	fore dispatch of equi	pment:

SPECIFICATIONS AND ALLIED TECHNICAL DETAILS

4.1 Specifications of Supply, installation, commissioning and maintenance of Short-Range X-Band Polarimetric Doppler Weather Scanning Radar (Qty - 04 Sets) Network in Mumbai Metropolitan Region with an Integrated Rain Monitoring and Warming.

Technical Requirements and Specifications

(Please refer Appendix No. – 1, available on page no. 67 to 82 of tender documents. If there is any clashes or dispute between the scope of supply, technical specifications, terms and conditions relating to pure technical parts of the equipment, training, warranty, AMC/CMAC etc., the wording / matter available in Appendix-1 prevails over the wording / matter available herein Chapter 4).

- Note: 1) Optional items mentioned in the quotation will not be considered for commercial evaluation
 - 2) Items to be supplied from India should be quoted in Indian Currency only

4.2 Scope of Supply

Scope of Supply includes the following:

- (i) Supply of the equipment / system as specified in 4.1 above
- (ii) Installation & Commissioning
- (iii) Training as specified below in 4.4
- (iv) On site comprehensive Warranty as specified in 4.5 (i) below
- (v) Supply of Spare parts as specified in 4.1 above
- (vi) Comprehensive Annual Maintenance Contract (CAMC) as specified in 4.5 (ii) below

4.3 Inspection & Tests

4.3.1 General

- (i) The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified here. The Supplier shall at its own expense and at no cost to the IITM carry out all such tests and/or inspections of the Goods and Related Services as are specified in the chapter 4 or as discussed and agreed to during the course of finalization of contract.
 - a. The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at the point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data - shall be furnished to the inspectors at no charge to the IITM
- (ii) Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.
- (iii) The IITM or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the IITM and what inspections and tests the IITM requires and where they are to be conducted. The IITM shall notify the Supplier in writing in a timely manner of the identity of any representatives retained for these purposes.

- (iv) Should any inspected or tested Goods fail to conform to the specifications, the purchaser may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.
- (v) The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at final destination shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.
- (vi) The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.
- (vii) With a view to ensure that claims on insurance companies, if any, are lodged in time, the bidders and /or the Indian agent, if any, shall be responsible for follow up with their Principals for ascertaining the dispatch details and informing the same to the Purchaser and he shall also liaise with the Purchaser to ascertain the arrival of the consignment after customs clearance so that immediately thereafter in his presence the consignment could be opened and the insurance claim be lodged, if required, without any loss of time. Any delay on the part of the bidder/ Indian Agent would be viewed seriously and he shall be directly responsible for any loss sustained by the purchaser on the event of the delay.
- (viii) Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance Manuals together with Drawings of the goods and equipment built. These shall be in such details as will enable the Purchase to operate, maintain, adjust and repair all parts of the works as stated in the specifications.
- (ix) The Manuals and Drawings shall be in the ruling language (English) and in such form and numbers as stated in the Contract.
- (x) Unless and otherwise agreed, the goods and equipment shall not be considered to be completed for the purposes of taking over until such Manuals and Drawing have been supplied to the Purchaser.
- (xi) On successful completion of acceptability test, receipt of deliverables, etc and after the Purchaser is satisfied with the working of the equipment, the acceptance certificate signed by the Supplier and the representative of the Purchaser will be issued. The date on which such certificate is signed shall be deemed to be the date of successful commissioning of the equipment. Acceptance certificate form as given in Annexure-I (Chapter 8) should be signed by authorised representative of Supplier &Purchaser.
- (xii) Installation, commissioning, demonstration and testing to be arranged by the supplier and the same are to be done within 90 days of the arrival of the equipment at site.

4.3.2 Manufacturer's Inspection Certificate

After the goods are manufactured and assembled, inspection and testing of the goods shall be carried out at the supplier's plant by the supplier, prior to shipment to check whether the goods are in conformity with the technical specifications. Manufacturer's test certificate with data sheet shall be issued to this effect and submitted along with the delivery documents. The purchaser reserves the options to be present at the supplier's premises during such Pre- dispatch inspection and testing.

4.3.3 Installation, Commissioning & Acceptance Test

The acceptance test will be conducted by the Purchaser, their consultant or other such person nominated by the Purchaser at its option after the equipment is installed at Purchaser's site in the presence of supplier's representatives. The acceptance will involve trouble free operation. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result of the test to

establish to the entire satisfaction of the Purchaser, the successful completion of the test specified.

In the event of the ordered item failing to pass the acceptance test, a period not exceeding two weeks will be given to rectify the defects and clear the acceptance test, failing which, the Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser.

Successful conduct and conclusion of the acceptance test for the installed goods and equipment shall also be the responsibility and at the cost of the Supplier.

4.4 Training

(i) Location: IITM

(ii) Number of persons: For a group of students / technical staff

(iii) **Period of Training:** 5 working days after installation

(iv) Nature of training: To operate the equipment efficiently, training to

collection & processing of the data, structure solution & refinement, safe handling of the equipment and

minimum maintenance.

4.5 Incidental Services

(i) On site Comprehensive Warranty:

- The system excluding X-ray source and detector should be warranted for a period of 01 year (comprehensive warranty) from the date of installation whereas the warranty for the X-ray source and detector should be for a period of 5 years.
- Down-time call attendance should be within 24 hrs.
- In case the Equipment / System remains non-operational for more than 7 days then warranty period will be extended for the equivalent period for which Equipment / System remained non-operational. Warranty extension in such case shall be done without prejudice to any other Term & condition of the contract

(ii) Comprehensive Annual Maintenance Contract (CAMC):

 Comprehensive AMC for four years after expiry of warranty may be quoted separately.

4.6 Delivery Schedule

All the radars will be delivered within 7 months from the date of clearance of critical design review.

4.7 Commercial evaluation of bid

The bid will be treated as **incomplete** if bidder has **not quoted** for all the components given in scope of supply (clause 4.2) and **the incomplete bid will be rejected**. The bidder should also quote for all incidental services (clause 4.5). The bid will be commercially evaluated for the components in the scope of supply.

CHAPTER 5

Qualification Requirements

The Bidder shall furnish documentary evidence along with Technical Bid to support the following Qualification Criteria:

1) The bidder shall furnish documentary evidence to demonstrate that the bidder satisfies the bidders' eligibility criteria, as mentioned in ITB Clause 1.1.2 in the form as per Annexure-K of Chapter- 8.

2) Financial Qualifying Criteria:

The Bidder shall furnish documentary evidence to meet the following Financial Qualifying Criteria:

- a) An **undertaking (self-certificate)** is to be submitted that the Organization has not been blacklisted during last 3 years by any Central / State Government Department/Organization in the form as per **Annexure-L of Chapter-8**.
- b) The Creditworthy report MIRA inform report of the OEM / Principal supplier for the Current Financial Year is to be enclosed along with the Technical Bid if the total price of the Equipment/System is more than Rs.01 Crore (Rs.10 million). The minimum rating for Financial Qualification is Rating-Ba.

The Creditworthy Report may be obtained from:

M/s. MIRA INFORM PRIVATE LIMITED, 605, Palmspring, Near D'Mart, Link Road, Malad (West), Mumbai: 400 064;

Tel Nos.: 022 - 40448000 (44 lines) Fax No. 022-0448045 / 40448046:

E-mail: mira@mirainform.com; info@mirainform.com

Website: http://www.mirainform.com

Note: The creditworthy report from other reputed and equivalent firms (such as Dun & Bradstreet) is also acceptable. However, report should have been obtained after 1st April 2019.

- c) The average annual financial turnover of 'The bidder' during the last three years, ending on 31st March, 2019 should be at Rs.08 Crore (Rs.80 million) (or equivalent in foreign currency at exchange rate prevalent on 31st March, 2019) as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant/Cost Accountant in India or equivalent in relevant countries.
- d) Bidder Firm (manufacturer or principal of authorized representative) should not have suffered any financial loss for more than one year during the last three years, ending on 31st March, 2019.
- e) The net worth of the Bidder firm (manufacturer or principal of authorized representative) should not be negative on 31st March, 2019 and also ii) should have not eroded by more than 30% (thirty percent) in the last three years, ending on 31st March, 2019.

Note: In case of Indian Bidders/companies (manufacturer or principal of authorized representative) who have been restructured by Banks in India, under the statutory guidelines, they would be deemed to have qualified the Financial standing criteria considering the institutional financial backing available to them.

3) The Bidder should be a manufacturer /authorized representative of a manufacturer who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the "Technical Specification". The **Manufacturers' Authorization Form** Chapter-8: Annexure B must be enclosed with the technical bid.

4) Experience and Technical Capacity:

The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

- a) Equipment / System offered must be of the most recent series/models incorporating the latest improvements in design. The models should be in successful operation for at least one year as on date of Bid Opening.
- b) The bidder (OEM/Direct Distributor/Dealer) should have supplied and installed during past 5 years, at least TWO X-band Polarimetric Doppler Weather Scanning Radar System as mentioned in Chapter-4. The Bidder should furnish the information on all past supplies and satisfactory performance during past 3 years in the Performance Statement Form (Chapter-8, Annexure D). Bidders shall invariably furnish documentary evidence (Client's certificate) in support of the satisfactory operation of the equipment / system.
 - c) Details of Service Centres and information on service support facilities that would be provided after the warranty period (in the **Service Support Form** Chapter-8 Annexure-F).
 - d) That adequate and specialized expertise is already available or will be made available following the execution of the contract in the Purchaser's country, to ensure that the support services are responsive and adequate as per ITB 1.13.2(c).
- 5) The Indian Agents of foreign manufacturers/ suppliers quoting directly on behalf of their principals for items appearing in the **restricted list of the current EXIM policy of the Govt. of India** must be registered with DGS&D.
- Either the Indian Agent on behalf of the foreign principal or the foreign principal directly could bid in a tender **but not both**. However, the offer of the Indian Agent should also accompany the authorization letter from their principal. Further, to maintain sanctity of tendering system **one Indian agent cannot represent two different foreign principals in one tender**.

The bidders who do not fulfil the above Eligibility, Financial and Technical Qualification Criteria shall be rejected during the Evaluation of Technical Bid.

CHAPTER 6-: PRICE SCHEDULE

Sr. No.	Item Description	Foreign Currency Component as per Chapter 6-A	INR Price Component as per Chapter 6-B
		Α	В
01	Total Cost of Short-Range X-Band Polarimetric Doppler Weather Scanning Radar Network in Mumbai Metropolitan Region Qty – 04 Sets. (Supply, Installation & Commissioning Charges, Warranty Charges if any, including Applicable Duties & Taxes etc.). (The details may be submitted as per the pro-forma given at Chapter 6-A & 6-B accordingly)		
02	Cost of Comprehensive Maintenance Contract (CAMC) for four years. (Including Applicable Duties & Taxes etc.)		
03	Grand Total (01 + 02)		

Note: The prices mentioned at Sr. No. 03 should exactly be submitted at e-procurement website (Price Bid) and soft copies of price schedule along with relevant chapter 6A & 6B have to be uploaded on e-procurement web portal. The prices submitted on e-procurement website will treated as final and comparison will based on the said prices only.

CHAPTER 6- A:PRICE SCHEDULE FOR GOODS BEING OFFERED FROM ABROAD

(Bidder should quote in this format however, if quoted in different format; all parameters given below should be covered)

Tender No:			Tender D			
Quotation No Date: _			Quotation	Valid Upto:		
Country of Origin:					Currency:	
Sr.No.	Descr	iption of Item	Quantity	Unit	Rate	Amount
	Catalogue, Part/Model No.	Specifications				
1.	Item name					
2.	Required Spares/Co	Required Spares/Consumables (if any)				
3.	Accessories (if any)					
4.	Additional Items					
				Total E	x-Works Price	
			(-) LE	SS: Discount	:% (if any)	
			,,		x-Works Price	
			(+) Pack	ing & Forwa	rding Charges	
			, ,	(+) Inland Fr	eight Charges	
(INCO TERM): FOB / FCAInternational Airport, Country						
	•	(+	·) Freight upto Mur			
	CIF / CIP MUMBAI Price					
Apr	proximate Weight of the	Consignment	Approxima		ns of the Consi	gnment
			* *		•	_
Approximate Weight of the Consignment			Approxima			gnment

TENDER CLAUSE NO.		TERM	CONDITION	
GCC/SCC 2.15.3	Mode of Shipment		BY AIR / SEA	
GCC 2.15.2	Delivery Term(INCOTERM)		-	
CHAPTER 3	Delivery Schedule			
	Period of delive	ery shall count from		
	Time Frame red	quired for	As enclosed in Techn	ical Bid as per Chapter-3
	conducting Inst		As enclosed in recini	icai bid as pei Chapter-5
		of the equipment,		
	Acceptance Test, Training, etc.			
	Port of destination		Mumbai, India	
	Final Destination		Regional Meteorological Centre, Mumbai, India	
	Installation & Commissioning Charges			
4.4	Training Details	& Charges		
	Comprehensive	Warranty (01 Year)	Period	Charges if any
GCC/SCC 2.20 (c)				
	Annual	Comprehensive	Period	Charges if any
	Maintenance		1 st Year	
	Contract		2 nd Year	
			3 rd Year	
			4 th Year	
GCC/SCC 2.21.1	Payment Term			•
GCC/SCC 2.21.1 (d)	Bank Charges		Inside India to IITM at to beneficiary's accou	ccount and Outside India

SIGNATURE OF AUTHORISED PERSON

CHAPTER 6-B: PRICE SCHEDULE FOR GOODS BEING OFFERED FROM INDIA

(Bidder should quote in this format however, if quoted in different format; all parameters given below should be covered)

Tender No: Quotation No		Date:	Tender Date: Date: Quotation Valid Upto: _			
Sr.No.	Descri	ption of Item	Quantity	Unit	Rate	Amount (Rs.)
	Catalogue, Part/Model No.	Specifications				
1.	Item name					
2.	Required Spares/Cor	nsumables (if any)				
3.	Accessories (if any)					
4.	Additional Items					
				Total Ex	-Works Price	
			(-) LESS	: Discount	% (if any)	
Net Ex-Works Price						
			(+) Packin	g & Forwar	ding Charges	
			(+)		tion Charges	
					GST Charges	
(IITM is having GST Concession and maximum GST is applicable @ 5% on supplies only)						
{Please refer clause no. 1.11.7 of the tender document}						
SUB TOTAL						
	ody Tax: IITM is exemp		o. LBT-005-0064836	for suppli	es from	
outside	Pune Municipal Corpo	ration Limits				
GRAND TOTAL						
Appr	oximate Weight of the	Consignment	Approximate	Dimension	s of the Consi	gnment

TENDER CLAUSE NO.		TERM	CONDITION		
GCC/SCC 2.15.3	Mode of Shipment		BY AIR / RAIL / ROA	D	
GCC 2.15.2	Delivery Term				
CHAPTER 3	Delivery Sched	ule			
	Period of delive	ery shall count from			
	Time Frame red		As enclosed in Techr	nical Bid as per Chapter-3	
	conducting Inst		AS CHOIOSCU III TCCIII	near Bia as per onapter o	
	_	of the equipment,			
	Acceptance Test, Training, etc.				
	Port of destination		Mumbai, India		
	Final Destination		Regional Meteorological Centre, Mumbai,		
			India		
	Installation & Commissioning				
	Charges including taxes				
4.4	Training Details & Charges				
	including taxes				
GCC/SCC 2.20.3	Comprehensive	e Warranty (01 Year)	Period	Charges if any (including taxes)	
	Annual	Comprehensive	Period	Charges if any	
	Maintenance	(including taxes)		(including taxes)	
	Contract		1 st Year		
			2 nd Year		
			3 rd Year		
			4 th Year		
GCC/SCC 2.21.1	Payment Term				

SIGNATURE OF AUTHORISED PERSON

FORMAT FOR DELIVERABLES FOR SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF 04 Nos. SHORT-RANGE X-BAND DUAL POL. DOPPLER WEATHER RADARS

SI.No	Items	Qty.	Qty. Cost Per Unit		Applicable Dutles & Taxes	Total cost
			In foreign currency	In INR		
1	Short-range X-band dual polarized Doppler weather radar system including all units/sub units and accessories: (Overall prices for system may be quoted in respective column and also price bifurcation may please be provided for the systems sub unit and accessories as detailed below i.e. for 1.1 to 1.10).	4 Sets				
1.1	Transmitter	4 Sets				
1.2	Receiver	4 Sets				
1.3	Antenna control unit and Radar control unit	4 Sets				
1.4	Radar signal processor	4 Sets				
1.5	Radome, Antenna &Antenna Pedestal	4 Sets				
1.6	Workstations for radar control (including one standby)	5 Sets				
1.7	Work Stations for display	4 Sets				
1.8	Workstations for MOSAIC	1 Set				
1.9	Firewall	4 Sets			1	
1.10	Radar Application and Operating Software	4 Sets				
2	Laptop	2 Sets				
4	Printer Factory training and testing Note: Expenses for trainees such as travel, lodging and per diem to be borne by IITM	2 Sets 1 Set				
5	Acceptance testing (Site)	4 Sets				
6	Storage /Archival	4 Sets				
7	Installation	4 Sets				
8	Application software for product generation as listed in APPENDIX NO. – 1, Section 5)	4 Sets				
9	Any other unit/sub units/item not listed above but required for functioning of DWR shall also be included.	4 Sets				
10	One year warranty services for radars System and central server	4 Sets				
11	Installation material	4 Sets				
12	Documentation (technical and manual) both hard copy and soft copy (1 Set per Site)	4 Sets				
13	Communication hardware/software for data transfer to central location.	4 Sets				
14	Suitable UPS for radar site	4 Sets				
15	Suitable UPS for central location	4 Sets				
16	Voltage stabilizer	4 Sets				
17	Test Equipment's (Oscilloscope, Handheld Spectrum analyser, Peak Power meter, Peak Power sensor, Signal Generator, Digital Multi-meter and Attenuator Set) as mentioned in Table 1	1 Set				
18	Air conditioner (AC) Enclosure of 2.5m x 2.5m size	4 Sets				
19	Chair and Table for AC Enclosure	4 Sets				
20	Training to IITM personnel at each site after completion of installation / commissioning for five working days. Note: Expenses for trainees such as travel, lodging and per diem to be borne by IITM	4 Sites				
	04 years (Year-wise) Comprehensive Annual Maintenance Contract (CAMC) after the expiry of 01 year warranty period 1stYear CAMC	4 Sites				
21	2ndyear CAMC				+	
	3rdYear CAMC				+	
	4ThYear CAMC				+	
22	Total Price (all inclusive) (TCO)					

*Note:

All the above items are to be supplied in quantities shown above. However, if a particular item is combined with another item the fact may be so stated against that item without dropping it.

If a particular item is not used in the radar system it may be so stated against that item.

If an item equivalent to the listed items is used in the radar details of same may be stated against that item. Manufacturer shall also include any other recommended spares (one each) specific to their radar system and identified as critical item.

Any other unit/subunits/item not listed above but required for functioning of DWR shall also be included

CHAPTER 7

Contract Form

Contract No.	Date:
THIS CONTRACT AGREEMENT is the <i>[insert: number]</i> day of <i>[in</i>	

BETWEEN

- (1) Indian Institute of Tropical Meteorology registered under the Societies Registration Act 1860 of the Government of India havingits registered office at Dr. Homi Bhabha Road, Pashan, Pune 411 008, India (hereinafter called "the Purchaser"), and
- (2) [insert name of Supplier], a corporation incorporated under the laws of [insert: country of Supplier] and having its principal place of business at [insert: address of Supplier] (hereinafter called "the Supplier").

WHEREAS the Purchaser invited bids for certain Goods and ancillary services, viz., [insert brief description of Goods and Services] and has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of [insert Contract Price in words and figures, expressed in the Contract currency(ies)] (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 01. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
- O2. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract:

(a)	This Contract Agreement
(b)	General Conditions of Contract
(c)	Special Conditions of Contract
(d)	Technical Requirements (including Schedule of Requirements and Technical Specifications)
(e)	The Supplier's Bid and original Price Schedules
(f)	The Purchaser's Notification of Award
(g)	[Add here any other document(s)]

- 03. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.
- 04. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
- O5. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Union of India on the day, month and year indicated above.

For and on behalf of the IITM, Pune.

Signed : [insert signature]

in the capacity of [insert title or other appropriate designation] in the presence of [insert identification of official witness]

Signed : [insert signature]

in the capacity of [insert title or other appropriate designation] in the presence of [insert identification of official witness]

For and on behalf of the Supplier

Signed: [insert signature of authorized representative(s) of the Supplier] in the capacity of [insert title or other appropriate designation] in the presence of [insert identification of official witness]

CHAPTER 8

OTHER STANDARD FORMS

Sr. No.	Name of the Form	Annexure
1	Bidder Information Form	Α
2	Manufacturers' Authorization Form	В
3	Bid Security Form / Earnest Money Deposit	С
4	Performance Statement Form	D
5	Deviation Statement Form	E
6	Service Support Detail Form	F
7	Bid Form	G
8	Performance Security Form	н
9	Acceptance Certificate Form	I
10	Indemnity Bond	J
11	Eligibility Certificate	К
12	Non Black List Certificate	L

NOTE: The Successful Bidder shall submit Documents with reference to Annexure – H, I & J after Award of Contract as mentioned in Purchase Order.

Bidder Information Form

1. [The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted. This should be done of the letter head of the firm]

Date : [insert date (as day, month and year) of Bid Submission]

Tender No ::[insert number from Invitation for bids]

01.	Bidder's Legal Name [insert Bidder's legal name]
02.	In case of JV, legal name of each party: [insert legal name of each party in JV]
03.	Bidder's actual or intended Country of Registration: [Insert actual or Intended Country of
	Registration]
04.	Bidder's Year of Registration: [insert Bidder's year of registration]
05.	Bidder's Legal Address in Country of Registration: [insert Bidder's legal address in country of
	registration]
06.	Bidder's Authorized Representative Information
	Name: [insert Authorized Representative's name]
	Address: [insert Authorized Representative's Address]
	Telephone/Fax numbers: [insert Authorized Representative's telephone/fax numbers]
	Email Address: [Insert Authorized Representative's email address]
0.7	
07.	Attached are copies of original documents of:
	Articles of Incorporation or Registration of firm named in 1, above.

Signature of Bidder	
Name	
Business Address	

MANUFACTURERS' AUTHORIZATION FORM

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]

Date : [insert date (as day, month and year) of Bid Submission]

Tender No. :[insert number from Invitation For Bids]

To : [insert complete name and address of Purchaser]

WHFRFAS

We [insert complete name of Manufacturer], who are official manufacturers of [insert type of goods manufactured], having factories at [insert full address of Manufacturer's factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following Goods, manufactured by us [insert name and or brief description of the Goods], and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 2.20 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: [insert si	gnature(s) of authorized rep	presentative(s) of the Manufacturer]
Name: [insert co	mplete name(s) of authorize	ed representative(s) of the Manufacturer]
Title: [insert title]	1	
Duly authorized	o sign this Authorization on	behalf of: [insert complete name ofBidder]
Dated on	day of	,[insert date of signing]

BID SECURITY FORM

Whereas					
(nerein	after called the tenderer)				
	omitted their offer datedsupply ofsupply of _supply of _s				
	after called the tender)				
Against	t the Purchaser's Tender No				
KNOW	ALL MEN by these presents that WE				
OI	having our registered office athereinafter called the "Purchaser")				
In	the sum of				
	the sum of				
assigns	ich payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and by these presents. Sealed with the Common Seal of the said Bank thisday of				
THE CO	NDITIONS OF THIS OBLIGATION ARE:				
(1)	If the tenderer withdraws or amends or modifies or impairs or derogates from the Tender in any respect within the period of validity of this tender.				
(2)	If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity				
(3)	If the tenderer fails to furnish the Performance Security for the due Performance of the contract.				
(4)	Fails or refuses to accept/execute the contract.				
the Pur amoun occurre	dertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without chaser having to substantiate its demand, provided that in its demand the Purchaser will note that the t claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the ed condition or conditions.				
	parantee will remain in force up to and including 45 days after the period of tender validity and any d in respect thereof should reach the Bank not later than the above date.				
	(Signature of the authorized officer of the Bank)				
	Name and designation of the officer				
Branch	Seal, name & address of the Bank and address of the				
Note:	Whenever the bidder chooses to submit the Bid Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.				

PERFORMANCE STATEMENT FORM

Details of similar equipment / systems supplied & installed during past 3 years in India & Abroad

Order Placed by (full address of Purchaser)	Order No. and date	Description and quantity of ordered equipment	Value of order	Date of completion of deliver as per	Date of actual completion of delivery	Remarks indicating reasons for late delivery, if any	Has the equipment been installed/working	Name of Contact person along with Telephone No., FAX No. and
				contract			satisfactory? (Attach a certificate from the purchaser / Consignee)	e-mail address

Signat	ure and Seal of the manufacturer/Bidder
Place	:
Date	:

DEVIATION STATEMENT FORM

PART –I The following are the particulars of deviations from the requirements of the tender specifications:

CLAUSE	DEVIATION	REMARKS (INCLUDING JUSTIFICATION)

NOTE:	Signature and seal of the Manufacturer/Bidder
Date:	
Place:	

Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviations".

<u>PART - II</u> (<u>Refer Clause 1.25 of Tender Document</u>)

Sr.No.	TENDER REQUIREMENT	COMPLIANCE	Document Submitted
1	Bid is Signed	Yes / No	Yes / NA
2	This is to certify that we are eligible to bid for this tender as per Annexure-C	Yes / No	Yes / NA
3	Bid Validity (180 days after the date of Bid opening)	Yes / No Bid valid up to	Yes / NA
4	Warranty: As per Clause 13 of Tender Document from Installation & Commissioning and date of acceptance.	Yes / No	Yes / NA
5	Agree to submit Performance Security 10% of PO Value as per Clause 17(ii)	Yes / No	Yes / NA
6	Bidder Information Form enclosed as per Annexure -A	Yes / No	Yes / NA
7	Manufacturers Authorisation Form (MAF) Annexure-B	Yes / No	Yes / NA
8	Certification of non-black listing (Self Certification) as per Annexure-D	Yes / No	Yes / NA
9	Performance Statement Form enclosed as per Annexure-F	Yes / No	Yes / NA
10	Service Support details enclosed as per Annexure-E	Yes / No	Yes / NA
11	Copy of Firm's / Company's Permanent Account No. (PAN) issued by Income Tax Department, Govt. of India.	Yes/No.	Yes/NA
12	Copy of last three years Income Tax Return of the firm / company.	Yes/No.	Yes/NA
13	Copy of Firm's / Company's Goods & Service Tax (GST) Registration issued by GST Department / Authority of the respective state.	Yes/No.	Yes/NA
14	Agree to sign & submit the Pre-Contract Integrity Pact as per Annexure - M	Yes/No.	Yes/NA

The Bidder should **submit other documents** such as fulfilment of financial qualification criteria (MIRA Inform Report), Schedule of Requirement (Chapter-3) and various forms as specified in Chapter-8.

SERVICE SUPPORT DETAIL FORM

Sr. No.	List of similar type of equipments serviced in the past 3 years	Address, Telephone Nos., Fax No. and e-mail address of the buyer	Nature of training Imparted/ service provided	Name and address of service provider

Signature and Seal of the manufacturer/Bidder
Place:
Date:
Dato:

Bid Form

[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date	: [Insert	t date (as day, month a	nd year) of Bid Submiss	sion]				
Tend	Tender No. :							
То	: Director, IITM, Pune							
We, t	he undersigned, declare tha	at:						
(a)			the Bidding Documen	ts, including Addenda No.:				
		er and issuing date of e						
(b)		e Schedule of Require	ments the following G	cordance with the Delivery bods and Related Services d in Chapter 4				
(c)				low, is: [insert the total bid				
, ,	price in words and figures							
(d)	The discounts offered and	the methodologies for	their application are:	_				
	Discounts. If our bid is	accepted, the followin	g discounts shall app	ly. [Specify in detail each				
	discount offered and the s							
(e)				from the date fixed for the				
				all remain binding upon us				
	and may be accepted at a							
(f)				cordance with ITB Clause				
(6)	1.41 and GCC Clause 2.12			be paid with respect to the				
(g)				of each Recipient, its full				
	0.	_	•	d the amount and currency				
	of each such commission		or gratuity was paid an	a the amount and currency				
	<u> </u>	or gratuityj						
Nam	e of Recipient	Address	Reason	Amount				
	-							
	<u>.</u>							
								
/l f		noid indicate "none "						
(II NO	ne has been paid or is to be	e paid, indicate none.						
(h)	We understand that this	hid together with v	our written accentance	e thereof included in your				
(11)				, until a formal contract is				
	prepared and executed.	an constitute a binain	6 contract between as	, until a formal contract is				
(i)		are not bound to accept	t the lowest evaluated b	oid or any other bid that you				
(-)	may receive.							
Signed : [Insert signature of person whose name and capacity are shown]								
In the capacity of [insert legal capacity of person signing the Bid Submission Form]								
	e capacity of [insert legal ca	parenty or percent engineer	Name : [insert complete name of person signing the Bid Submission Form]					
Nami				,				
	e : [insert complete name	of person signing the E	Rid Submission Form]	-				
Duly	e : [insert complete name authorized to sign the bid for	of person signing the E	- Bid Submission Form] ert complete name of E	- Bidder]				
Duly	e : [insert complete name	of person signing the E	- Bid Submission Form] ert complete name of E	- Bidder]				
Duly	e : [insert complete name authorized to sign the bid for	of person signing the E	- Bid Submission Form] ert complete name of E	- Bidder]				

PERFORMANCE SECURITY FORM

MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY

To,
WHEREAS
AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;
AND WHEREAS we have agreed to give the supplier such a bank guarantee;
NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of
We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.
We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.
This guarantee shall be valid until the day of, 20
(Signature of the authorized officer of the Bank)
Name and designation of the officer
Seal, name & address of the Bank and address of the Branch

Note: Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

Acceptance certificate form

No.		Addeptande de	Dated:
M/s.	-		
	-	Sub: Certificate of com	missioning of equipment
01.	wit		elow has/have been received in good condition along subject to remarks in Para 2). The same has been
(a)	Co	ntract No. te:	
(b)	_	scription of the equipment	
(c)		me of the consignee	
(d)		heduled date of delivery of the consignment to boratory / Institutes	the
(e)	Ins	tual date of receipt of consignment by the Lab titutes	oratory /
(f)		heduled date for completion of tallation/commissioning	
(g)		tual date of completion of installation/commis	
(h)	Rs		, i
(i)	Pe Rs	nalty for late installation (at Laboratory / Instit	utes level
02		Details of accessories/items not yet supplied a	nd recoveries to be made on that account:
Sr. N	lo.	Description	Amount to be recovered
03	C	The acceptance test has been done to our entire contractual obligations satisfactorily OR	
Sr. N		he supplier has failed to fulfil his contractual of Failure	Amount to be recovered
(a		i dilaio	Amount to bo recovered
(b)	_		
(c))		
		unt of recovery on account of failure of the at para03.	e supplier to meet his contractual obligations is as
For S	upp	lier For F	urchaser
Signa	ture		ature
Name		Nam	
Desig Name			gnation AN INSTITUTE OF TROPICAL METEOROLOGY
Date		Date	

INDEMNITY BOND

No	Date:
1) Amalgamation/Acquisition	
In the event of M/s. — proposes for amalg other firm during this contract period, M/s. — Company are liable to execute, fulfill contractual obligation — /M/s. — and proposed Bu indemnify itself to the Director, INDIAN INSTITUTE OF contractual obligations as per the terms of the IITM Global -No. — dated — and INDIAN INSTITUTE OF TRO —. The contractual obligations are supplemaintenance/replacement of spares, accessories etc. as period of the contractual obligations are supplemaintenance/replacement of spares, accessories etc.	- and proposed Buyer/Successor of the Principal is without any deviations. For this purpose M/s. — iyer/Successor of the Principal Company shall TROPICAL METEOROLOGY, Pune to fulfill the Tender and quotation of M/s. ————————————————————————————————————
2) Joint Venture, Consortium or Association	
If the Supplier is a joint venture, consortium, or association to the IITM for the fulfillment of the provisions of the Co leader with authority to bind the joint venture, consortium, or association the IITM.	entract and shall designate one party to act as a prtium, or association. The composition or the
3) Patent Indemnity	
The Supplier shall, subject to IITM's compliance and indem harmless from and against any and all suits, actions or adr damages, costs, and expenses of any nature, including att as a result of any infringement or alleged infringement trademark, copyright, or other intellectual property right recontract by reason of: (a) the installation of the Goods by (b) the sale in any country of the products produced by the	ministrative proceedings, claims, demands, losses, corney's fees and expenses, which IITM may suffer of any patent, utility model, registered design, egistered or otherwise existing at the date of the the Supplier or the use of the Goods in India; and
For M/s. ——— Principal Supplier.	For M/s. ————Indian Agent.

Eligibility Certificate

This is to certify that we are not associated, or hawith a firm or any of its affiliates which have been engage for the preparation of the design, specifications, and othe goods to be purchased under this Invitation of Bids / Tend	r documents to be used for the procurement of the
	Authorised Signatory
	Name:
	Designation:
	ANNEXURE-L
Non-Black listin	ng Self Certificate
This is to certify that M/s Government Department / organization in last 3 years.	_has not been blacklisted by any Central / State
	Authorised Signatory
	Name:
	Designation:

Format of the Integrity Pact

PRE CONTRACT INTEGRITY PACT

General

This pre-bid-contract Agreement (hereinafter called the Integrity Pact) is made onday	of
the month of 2017, between, on one hand, the Director IITM, Pune acting through Dr. /Sl	hri
,, Designation of the officer, Ministry/ Department	nt,
Government of India (hereinafter called the 'BUYER", which expression shall mean and include, unless the	he
context otherwise required, his successors in office and assigns) of the First Part and M	/s
represented by Shri, Chief Executive Officer (hereinafter called	ed
the 'BIDDER/Seller" which expression shall mean and include, unless the context otherwise requires, h	nis
successors and permitted assigns) of the Second Part.	

WHEREAS the BUYER proposes to procure (Name of the Stores/Equipment/Item) and the BIDDER /Seller is willing to offer/has offered the stores and

WHEREAS the BIDER is private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry/Department of the Government of India/PSU performing its functions on behalf of the President of India

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to :-

Enabling the BUYER to obtain the desired said stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERs to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto agree into this Integrity Pact and agree as follows:-

Commitments of the BUYER

- 1.1 The BUYERE undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERs the same information and will not provide and such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERs.
- 1.3 All the officials of the Buyer will report the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the

BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceeding, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry I being conducted the BUYER the proceedings under the contract would not be stalled.

Commitments of BIDDERs

- 3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-
- 3.1 The BIDDER will not offer directly or through intermediaries, any bribe, gift, consideration, reward, favor, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration Reward, favor, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do so having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favor or disfavor to any person in relation to the contract or any other contract with the Government.
- 3.3* BIDDERs shall disclose the name and address of agents and representatives and Indian BIDDERs shall disclose their foreign principals or associates.
- 3.4* BIDDERs shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
- 3.5* The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/integrator/authorized government sponsored export entity of the defense stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 3.6* The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the
 - BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details if services agree upon for such payments.
- 3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9 The BIDDERS shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contains in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.

- 3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the action mentioned above.
- 3.12 If BIDDER or any employee of the BIDDER or person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financially interested/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filling of tender.

The term 'relative' for this purpose would be as define in Section 6 of the Companies Act 1956.

3.13 The BIDDER shall not lend to or borrow any money from or entire into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

4. Previous Transgression

- 4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.
- 4.2 The BIDDER agrees that if it makes incorrect statement on this subject BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Earnest Money (Security Deposit)

- 5.1 While submitting commercial bid, the Bidder shall deposit an amount _____ (to be specified in tender document as Earnest Money/ Security Deposit, with the BUYER through any of the following instruments:
 - i) Bank Draft or a Pay Order in favor of _____
 - ii) A confirmed guaranteed by an Indian Nationalized Bank. Promising payment of the guaranteed sum to the BUYER on demand within three working days without any demur whatsoever and without seeking any reason whatsoever. The demand for payment by the BUYER shall be treated as conclusion proof of payment.
 - iii) Any other mode or through any other instruments (to be specified in the tender document.
- 5.2 The Earnest Money/ Security Deposit shall be valid upto a period of six months or the complete conclusion of the contractual obligation to the complete satisfaction of the both the BIDDER and the BUYER, including warranty period, whichever is later.
- 5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to performance Bond in the Purchase Contract that the provisions of Sanctions for Violation shall be applicable for forfeit the same without assigning any reason for imposing sanction for violation of this Pact
- 5.4 No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

6. Sanction for Violations

Any breach of the aforesaid provisions by the BIDDER or any on employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitled the BUYER to take all or any one of the following actions, wherever required:

- i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
- ii) The Earnest Money (in pre-contract stage) and/or Security Deposit/ Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason thereof.
- iii) To immediately cancel the contract. If already signed, without giving any compensation to the BIDDER.
- iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereof at 2% higher that the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the bidder from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
- v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.
- vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.
- Viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
- ix) in case where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.
- (x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 6.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1 (i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal Code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 6.3 The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes of this Pact.

7. Fall Clause

7.1 The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

8. Independent Monitors

- 8.1 The BUYER has appointed Independent monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission. The details of Independent External Monitors are as below:
 - (1) Shri. Arun Kumar,

Ex. Secretary, Oil Industry Development Board (OIDB),

B-38, Vrindavan Apartment, Plot No. 1,

Sector 6, Dwarka, New Delhi -110075

Email:-kumararun 53@rediffmail.com

Mob.: 9810621113

(2) Shri. Sushil Gupta,

Ex. Chairman, Central Ground Water Board (CGWB) & Central Ground Water Authority (CGWA), No. B 702, Aravali Height,

Sector 21 C, Faridabad, Haryana

Pin - 121001

Email: - sushilanitagupta@yahoo.com

Mob.: 09999744061

- 8.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 8.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 8.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of the meetings.
- As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.
- 8.6 The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.
- 8.7 The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 8.8 The Monitor will submit a written report to the designated Authority of the BUYER/Secretary in the Department/ within 8 to 10 weeks from the date of reference or intimation to him by the BUYER / BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

9. Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

10. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

11. Other Legal Action	11.	Other	Legal	Actions
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The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

12 .	Va	lid	itv
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- 12.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.
- 12.2 Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13. The parties hereby sign this Integrity Pact at	onon
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BUYER	BIDDER
Name of the Officer	
Designation	
Deptt./Ministry/PSU	
Witness	Witness
1	1

2. _____

^{*}Provisions of these clauses would need to be amended/deleted in line with the policy of the BUYER in regard to involvement of Indian agents of foreign suppliers.

Instructions for Online Bid Submission on E-Wizard Web Portal:

The bidders are required to submit soft copies of their bids electronically on the e-tender Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the e-Procurement Portal https://moes.euniwizarde.com, prepare their bids in accordance with the requirements and submitting their bids online on the e-Procurement Portal.

More information useful for submitting online bids on the e-Procurement Portal may be obtained at: https://moes.euniwizarde.com

REGISTRATION

- 1. Bidders are required to enroll on the e-Procurement Portal (https://moes.euniwizarde.com) with clicking on the link "Online bidder Registration" on the e-tender Portal by paying the Registration fee of Rs. 2360/-per year charge.
- 2. As part of the enrolment process, the bidders will be required to choose a unique user name and assign a password for their accounts.
- 3. 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 with the bidder.
- 4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Only Class III Certificates with signing + encryption key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
- 5. 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 DSC"s to others which may lead to misuse.
- 6. Bidder then logs in to the site through the secured log-in by entering their user ID/password and the password of the DSC / e-Token.
- 7. The scanned copies of all original documents should be uploaded on portal.
- 8. For any Query contact to our helpdesk Number 011-49606060, Email: helpdeskeuniwizarde@gmail.com, Mr. Sunil 8448288990.

SEARCHING FOR TENDER DOCUMENTS

- 9. There are various search options built in the e-tender Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Item/work id, Title, Date, etc
- 10. Once the bidders have selected the tenders they are interested in, the bidder can pay the processing fee of Rs.+ 18 % GST-/ (NOT REFUNDABLE) by net-banking / Debit / Credit card and then download the required documents / tender schedules, Bid documents etc. Once both tender fees are paid, it will be moved to the respective "requested" Tab. This would enable the e-tender Portal to intimate the bidders through e-mail in case there is any corrigendum issued to the tender document.

PREPARATION OF BIDS

- 11. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 12. 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.
- 13. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF /JPEG formats. Bid Original documents may be scanned with 100 dpi with Colored option which helps in reducing size of the scanned document.
- 14. 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, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Documents" available to them to upload such documents.
- 15. 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.

SUBMISSION OF BIDS

- 16. Bidder should log into the website well in advance for the submission of the bid so that it gets uploaded well in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 17. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 18. Bidder has to select the payment option as "DD" to pay the EMD as applicable and enter details of the instrument.
- 19. Bidder should prepare the EMD as per the instructions specified in the tender document & submit EMD fee manually at department end. The original bid should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 20. *Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the yellow coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoO file is found to be modified by the bidder, the bid will be rejected.
- 21. 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.
- 22. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 23. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 24. Upon the successful and timely submission of bid click "Complete" (i.e. after Clicking "Submit" in the portal), the portal will give a successful Tender submission acknowledgement & a bid summary will be displayed with the unique id and date & time of submission of the bid with all other relevant details.
- 25. The tender summary has to be printed and kept as an acknowledgement of the submission of the tender. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

1. For any Query contact to our helpdesk Number 011-49606060, Email helpdeskeuniwizarde@gmail.com, Mr. Shubhankar- +91 8076208996; Mr Awesh - 91 9205898224

Supply, Installation, Commissioning & Maintenance of Short-Range X-Band Polarimetric Doppler Weather Scanning Radar (Qty - 04 Sets) Network in Mumbai Metropolitan Region with an integrated rain monitoring and warning system

1. GENERAL:

Indian Institute of Tropical Meteorology (IITM) intended to establish a network of short-range X-band dual polarized Doppler weather scanning radars over Mumbai Metropolitan region for heavy rainfall monitoring and warning system. IITM will procure total four (4) numbers of radar systems as per the requirement mentioned below in detail:

- a) The specifications described herein refer to short-range X-band (9.35-9.6 GHz) Polarimetric Doppler Weather Scanning Radar, hereafter referred to as "The System". The System shall be capable of detecting and estimating meteorological parameters of severe weather phenomena that cause widespread damage to life and property. Four radars need to be deployed in network configuration in the Mumbai Metropolitan region.
- b) GPS based NTP server for ensuring clock time synchronization of the radars and computers.
- c) Configuration of the four radars shall be set for synchronous operation.
- d) Communication hardware and accessories for data transfer from radar sites to IITM, Pune.
- e) Latest state of art computer system shall be used for generation of radar data and its processing. The entire operation of the System shall be computer controlled and remotely manageable.
- f) The quoted radar signal processors and its data analysis software for the System should be in use in any operational weather services/urban weather radar network in the world. It shall meet the functional requirements of the network along with the data products required to be generated, displayed, and archived, which have been specified elsewhere in detail.
- g) All equipment shall be of industry standard to enable easy upgrade and maintenance.
- h) Horizontal maps of reflectivity, and radial velocity at different vertical levels (CAPPI) and surface rain rate to be generated and displayed through the GIS platform. Such maps shall also be available through radar MOSIAC/COMPOSITE configurations wherein data from multiple radars will be merged digitally and displayed on GIS.
- i) Suitable voltage stabilizer is required to avoid power fluctuation, if any.
- j) Lightning protection is required for safety of the System.
- k) The antenna mount shall be equipped with suitable levelling system to ensure horizontal alignment of azimuth and elevation axis. Suitable indicators / readers shall be included for confirming the antenna base alignment.
- I) IITM will take possession after appropriate test and evaluation meeting the required specifications and accept the System after the successful site acceptance procedures have been completed. It is the responsibility of the bidder to bear all the expenditure to operate and manage the radar including manpower requirements, security and all radar peripherals till successful acceptance and commissioning.
- m) Delivery of radar at the site shall be the responsibility of vendor.
- n) The entire work of installation and commissioning of the radars have to be carried out by vendor, though IITM may station few of its officials at the site for guidance.

- o) The network link between the System and server at IITM will be provided by IITM; firm shall suggest suitable bandwidth for real time system control and monitoring; a near real-time receipt of data for generating composites of all the radars.
- p) If required, IITM or other organizations under MoES may issue supply order for 1 (one) more radar within the warranty period of the supplied radars with same terms and conditions as per this tender.
- q) The price bids of technically qualified firms only shall be processed for further scrutiny and evaluation on a date notified after evaluation of the techno commercial bid.

IITM shall evaluate the price bids of technically qualified vendors for deciding lowest bidder (L-1) on the basis of total cost including cost of all the deliverables as per the tender document and all prevailing taxes and duties and any other charges as demanded by the vendor including custom duty

2. OVERALL SYSTEM REQUIREMENTS:

IITM requires establishing a network of short-range X-band Dual Polarimetric Doppler Weather Radar System as per technical specification mentioned in **Table-1**.

List of deliverables for establishing a network of four Short-range X-Band Dual Polarimetric Doppler Radars attached vide Annexure-1 (FOR DELIVERABLES OF 4 Nos. SHORT-RANGE X-BAND DUAL POL. DOPPLER WEATHER RADAR NETWORK).

3. ARCHIVAL OF RADAR DATA:

a. The base data that includes Reflectivity, Velocity, Spectrum Width and Dual Polarimetric Parameters (output of radar processor) shall be stored automatically on hard disk or data storage device. Network Attached Storage on RAID 5 with a usable capacity of at least 20 TB based on - SATA disk to be provided for archival of Base Parameters data.

4. DATA FORMATS:

4.1 Digital Data

- a) System should be capable of archiving of raw data (Doppler moments) and generating Polarimetric Doppler Weather Radar Base data and products. There should be provision to convert base data and products into other formats such as HDF5, NETCDF (CFRadial).
- b) Facility of conversion into different formats such as NETCDF should be available real-time as well as offline mode.

4.2 Image data

- a. The System should be capable of generating images in the format such as JPEG, GIF, TIFF, PNG etc for publishing on web site.
- b. A-4 Size Plain paper high resolution Laser Color Printer cum scanner (20ppm, 600dpi) for taking hard copies of images and products shall be provided.

5. PRODUCT GENERATION:

The System should be having required menu driven software with GUI controls for:

- a. Operating the radar.
- b. Setup of operational scan parameters.
- c. Setup of communication channels.
- d. Setup of display overlaid on map of India with political boundaries of international borders, states and district boundaries.
- e. Automatic calibration for solar, receiver, dynamic range.
- f. Monitoring the health and status of the radar.
- g. The process of setup/change of various scan parameters should be easily accessible to operators using GUI.
- h. Product generation and display.

- i. Facility to reprocess and display products from past data.
- j. Simultaneous display of data having more than one parameter.
- k. The System shall perform optimized correction of reflectivity (Z) and differential reflectivity (ZDR) data for attenuation effects from rain based on algorithm using polarimetric parameters such as Differential Phase (Φ_{DP}), Specific Differential Phase (K_{DP}) and Correlation Coefficient (ρ_{HV}).
- I. Setup of data conversion from native format to scientific formats. The setup can be for automatic conversion and also for conversion of desired past data sets. Should be able to convert all base data sets. It should also be possible to convert the derived digital data from base data such as velocity, wind etc. Facility for generating composite data set in NETCDF and HDF5 along with native formats, in near real time also to be provided.

The System shall be capable of generating the following products from the base data output from the radar signal processor. Algorithms and references for all the products listed below and supplied should be provided.

5.1 Base Products

- a) The System shall generate base data comprising for reflectivity (Z), radial velocity (V), spectral width (W) and Polarimetric products after applying different corrections to raw data (like rain attenuation correction of reflectivity and differential reflectivity using differential phase measurements, beam blockage, non-meteorological echoes, second-trip removal, ground clutter)
- b) Provision also should be available to generate all products in offline mode using the archived raw data.
- c) Provision to store the rain attenuation corrected data in NETCDF (CFRadial NC) format. Provide detail documentation/references on the algorithm used for the attenuation correction.
- d) The data of radars that belong to the same area need to be interpolated and merged (user defined resolution) and create a composite (Mosaic) map. Composite data set of reflectivity, rainfall rate, rainfall accumulation, warnings to be provided. Composite data set in NETCDF along with native formats, in near real time also to be provided.

5.2 Primary Products

5.2.1 CAPPI (Constant Altitude Plan Position Indicator)

The System shall interpolate from the volume scan data set for a geo-horizontal plane at user vertical defined height and display the same pertaining to user selectable data (e.g., Z, V and W etc).

5.2.2 PCAPPI (PSEUDO CAPPI)

The System shall incorporate data from the highest elevation scan near the radar and from lowest elevation scan for areas at far away from the radar for which radar beams are not intersected by user defined plane for CAPPI and display same pertaining to data selected by user.

5.2.3 VCUT (Vertical Cut)

The System shall interpolate all the base products (Z, V and W) in any vertical plane passing through user defined two points and display the same for the user selectable parameters.

5.2.4 ETOP (ECHO TOP)

The System shall identify from the volume scan data the maximum height up to which the user defined threshold value for each base data exists and display them for user selectable data.

5.2.5 Hydrometeor Classification

The System shall be capable of generating a product for Hydrometeor Classification of hydrometeors based on Polarimetric parameters (Z_{DR} , Φ_{DP} , K_{DP} and ρ_{HV}). Provision for changing parameters in a scientific way for customization of the hydrometeor classification is a requirement. Hail detection based on this classification shall be one of the products in this class. Provide detail documentation/references on the algorithm used for the classification.

5.3 Derived Meteorological Products:

5.3.1 Velocity Products

Velocity Azimuth Display (VAD) for profiles of horizontal wind velocity and wind direction using barbs in a vertical column above the radar site.

5.3.2 Hydrological Products:

The System shall generate and display following hydrological products:

- a. Rainfall intensity (R) estimation (instantaneous and over a user defined period) using polarimetric moments (R-KDP, R-Z-ZDR) and Z-R method for a given height above the ground. There shall be provision to modify the rain-rate estimation equations.
- b. Software shall have provision to adjust radar-derived rainfall by surface rain gauge or disdrometer observation and with this adjustment factor should be implemented to produce merged (radar-gauge) rainfall maps. Gauge/disdrometer data will come from the IITM or other agencies.
- c. The System shall use algorithm based on polarimetric parameters for correcting rain rate estimation errors arising out of liquid path attenuation.

5.3.3 Aviation Products

The System shall estimate wind velocity in radial, azimuth, elevation, North South, East West directions that can be used to derive horizontal, vertical and three-dimensional shears.

5.3.4 Warning and Forecasting Products.

- a. System shall generate and display warning symbols for thunderstorm and hail storm, The forecast of probable places of likely hood, their track, etc using a reliable algorithm.
- b. System shall be capable of evaluating speed and direction of movement of weather systems.
- c. System shall also be capable of warning if any of the conditions defined by the user are reached or fulfilled on reflectivity, velocity, VIL, rainfall intensity, rainfall accumulation and wind shear.
- d. Heavy rainfall warning with text output message (via SMS/email) to registered users

6. SYSTEM PERFORMANCE STATUS

A system making use of latest technology for continuous monitoring of the operational status of hardware and software functions and utilities of the radar system shall be supplied. The status of the radars should be made available at remote location using networking.

7. PROVISION FOR NETWORKING & COMMUNICATION SYSTEM FOR DATA TRANSFER TO CENTRAL LOCATION:

Provision shall be made with suitable communication hardware & software for real time transfer of digital radar data and images through networking to control and monitoring centre and central server System installed at IITM, Pune. All networking components required at radar site as well as command and control center shall be provided by the supplier. Necessary interface shall be provided for sending radar data through VPN or Internet. The communication link with fixed IP will be provided by IITM. The supplier shall specify the bandwidth requirement.

8. INSTALLATION:

- a) The System will be probably installed on high rise building rooftops and such existing infrastructure. All installation related work should be carried out by the supplier. However, IITM personnel shall be associated with the installation process. All installation materials required shall be supplied by the vendor.
- b) Air conditioned Enclosure of 2.5m x 2.5m size (typical) is required for radar control PC and sitting arrangement for radar operator. One table and one chair are required.

- c) The entire responsibility of site preparedness for installation of the radar and its peripherals shall be the responsibility of the vendor.
- d) Pre requisite for electrical requirements for installation of radar be clearly mentioned separately, inclusive of suitable diagrams of antenna and radome installations, along with the technical bid.
- e) Suitable Lightning Arresters for protecting the radar shall be provided by the vendor.
- f) Aviation warning indicator lamps shall be supplied and installed by the vendor on the top of the antenna/radome at appropriate height.
- g) All other requirements such as permissions, space on building roof top, power and communication facility etc. will be arranged by IITM for enabling installation/ commissioning of radars at each respective site.

9. LOCATION:

The installation of four short-range X-Band Dual Polarized Doppler Weather Radars in network will be in Mumbai metropolitan region or near vicinity so as to obtain the coverage over the Mumbai metropolitan area.

10. TESTING AND ACCEPTANCE:

- a. The supplier shall submit detailed test plans for Factory Acceptance Testing (FAT) prior to shipment and Site Acceptance Test (SAT) after installation at site for system acceptance. The test plan shall require concurrence by the IITM.
- b. The objective of the tests shall be the verification of performance of the system as per the specifications and functional requirements as per the tender document.
- c. As per the mutually agreed test procedures, FAT shall be carried out at the supplier's premises (Buyer may waive off this condition) prior to shipment. The equipment shall be shipped only after satisfactory conclusion of the pre-shipment acceptance testing (FAT).
- d. As per the mutually agreed test procedures, acceptance test should be carried out at each radar site after installation. The supplier shall arrange for necessary test equipment.
- e. Any defects/deviations noticed during the site acceptance tests shall be rectified within a maximum period of one month from the completion of the tests. After such rectification, the tests shall be repeated to verify the rectification.
- f. Within 30 days of installation of each system, the supplier should secure acceptance of the radar and its peripherals as a whole system.

11. SYSTEM COMMISSIONING:

After the satisfactory completion of the site acceptance tests, the supplier shall demonstrate the reliabilities and capability of the system to be operated continuously and satisfactorily for a period of 15 days (24x7) endurance test of the complete radar system, after which it will be said to be commissioned.

12. WARRANTY:

- a. Warranty shall remain valid for one year after the system has been commissioned and accepted by the purchaser as per terms of the contract. This warranty clause is applicable at individual radar sites.
- b. Upon receipt of notice about faults, the supplier shall repair or replace the defective goods or parts thereof, free of cost, at the site.
- c. The supplier shall take over the replaced parts/ goods after providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/ goods thereafter.
- d. The firm shall supply the software updates, if any, during the warranty and CAMC period, free of cost.
- e. Supplier shall ensure 95% of 365 days annual-uptime.

- f. The supplier has to attend the fault identification within 48 hours of the problem communicated by the consignee during the warranty period.
- g. If the supplier, could not meet the 95% annual-uptime (calculated Quarterly at the time of payments) and there is a failure of the system for more than the criteria stipulated then a penalty amount of 0.25% of the total equipment cost per day for that radar, for days it is down, will be deducted from the performance guarantee amount, subject to an upper ceiling of 10% of the total equipment cost. Furthermore, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.
- h. Maximum one week (for two times in year) shutdown for Annual maintenance shall not come under the clause. Delay due to external factors and natural calamity beyond human control will be exempted.
- i. During warranty period, the supplier is required to visit consignee's site at least once in six months commencing from the date of acceptance at site for preventive maintenance, calibration and various types of checks of the goods/ equipment and a detailed report consisting of all test procedure values etc. must be submitted to IITM. During warranty period, any complaint on system performance/defect/malfunction should be attended within 48 hours through ONLINE/OFFLINE and rectified within 7 days. The required spare/sub system should be readily available for vendor Site Engineer to achieve this.

13. TRAINING:

The supplier shall provide training in operation, maintenance, calibration and fault identification of the radar system along with modification and up-gradation in application software to 4 persons nominated by IITM, for a period of 2 weeks at factory site. The training shall also include topics on the system design, computer hardware/software, operation and such other aspects, which are considered essential for optimum utilization of the radar system. Onsite training in operations and first level fault identification to be provided for a period of five working days.

14. DOCUMENTATION:

- a. The supplier shall furnish one copy of the following documentation in well-bound sets/volumes of good print quality for each radar site. Soft copy of all the manuals should also be provided along with hard copy.
- b. All standard manuals, technical data sheets and other pertinent information of functional, electrical, and mechanical modules used in the System shall be included in the manuals.
- c. Interface connectivity document has to be provided for hardware as well as software interfaces.
- d. The system functional block diagram shall be laid out so that a user can readily understand and identify the major functions of the system.
- e. The operating instructions shall include routine procedures, safety and emergency procedures as applicable. These instructions shall include switch-on, standby, normal operating procedures and switch off procedures. The sequence of turn-on procedures shall be optimized and shall account for controls at different physical locations. The instructions shall provide assistance to an operator to use the System for optimum performance. Sufficient illustrations shall be included to identify and locate all operating controls and indicating devices.
- f. Layout and Schematic Assembly Drawings: Schematic Diagrams of all assemblies, modules shall be provided.
- g. Algorithm of Products: The algorithms used in product generation shall be supplied.

15. DELIVERY SCHEDULE:

- a. Preliminary design review will be held within one month from the date of issue of supply order/ establishment of Letter of Credit where in the design of hardware and software to be delivered as part of the system will be discussed.
- b. Critical design review will be conducted within two months from the date of issue of supply order/ establishment of Letter of Credit where in the design along with performance parameters of the sub units will be discussed in detail to ensure that the system achieves the performance parameters to be delivered as per the tender document. The CDR will be concluded within a week time.
- c. All the radars to be installed and commissioned in the form of network within 7 months from the date of clearance of critical design review. In this regard the firm will submit the actual schedule along with time line for execution of installation and commissioning work for each radar.

16. COMPLIANCE STATEMENT:

- i) The supplier shall submit detailed para-wise compliance statement in tabular form giving full details of each parameter along with reasons for compliance/non-compliance, if any. The entries in the compliance statement table SHOULD BE PREPARED STRICLY as per the flow of the tender document.
- ii) The supplier shall also submit the details of references, reports etc. for each compliance giving name of technical manual, chapter number, page number and para and shall provide a copy of referred documents along with the technical bid. Also all the claims with respect to any specification shall be strictly supported by DOCUMENT/REFERENCE/ANALYSIS along with bid document otherwise same may be treated as non-compliance.
- iii) Silence on any para or simply making only a statement 'complied' without proper justification or reference will be considered as non-compliance.
- iv) Compliance matrix should be filled in at all points of the tender document individually.
- v) All pages should be signed.

17. VENDOR QUALIFICATION CRITERIA:

- a) The bidder/supplier of radar must have manufactured, tested and supplied at least TWO scanning X-band polarimetric Doppler weather radars during the last 5 years, and the system should be in successful operation continuously as on date of opening of bid. The bidder/supplier shall submit a certificate from the user indicating the successful operation of the radar, with contact details of user in case IITM needs to get the information as deemed necessary for the bidding process.
- b) If the radar being offered in the bid is to be integrated by the bidder/supplier, then the integrating firm must have the experience of integration of at least TWO scanning X-band polarimetric Doppler weather radars during the last 5 years. Such supplied radar systems should be in successful operation continuously as on date of opening of bid and shall submit a certificate from the user.
- c) The Bidder/Supplier should furnish the information on all past supplies in the proforma available in tender document.

18. VENDOR FINANCIAL QUALIFICATION CRITERIA:

a) The average annual financial turnover of 'The bidder' during the last three years, ending on 31st March, 2019 should be at Rs. 80 million (or equivalent in foreign currency at exchange rate prevalent on 31st March, 2019) as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant/Cost Accountant in India or equivalent in relevant countries.

- b) Bidder Firm (manufacturer or principal of authorized representative) should not have suffered any financial loss for more than one year during the last three years, ending on 31st March, 2019.
- c) The net worth of the Bidder firm (manufacturer or principal of authorized representative) should not be negative on 31st March, 2019 and also ii) should have not eroded by more than 30% (thirty percent) in the last three years, ending on 31st March, 2019.

Note: In case of Indian Bidders/companies (manufacturer or principal of authorized representative) who have been restructured by Banks in India, under the statutory guidelines, they would be deemed to have qualified the Financial standing criteria considering the institutional financial backing available to them.

19. COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (CAMC):

The Bidder/Supplier shall quote for comprehensive AMC for four years subsequent to completion of warranty period. The firm shall submit the year wise lump sum amount of CAMC charges. The amount charged for CAMC shall not be quoted as percentage of the tender cost / cost of equipment. The CAMC charges shall be included for price comparison. The terms and conditions for the CAMC are enclosed at <u>Annexure -2.</u>

SHORT-RANGE X-BAND DUAL POL. DOPPLER WEATHER RADAR SPECIFICATIONS

		CENEDAL					
1.	GENERAL 1 Pands of Observation 0.15 km to 60 km (typical)						
	Range of Observation	0.15 km to 60 km (typical) 75 m or lesser than 75 m (With Range Side lobe suppression					
2.	Range resolution	· · · · · · · · · · · · · · · · · · ·					
2	Moy Unombiguous	greater than -40dB)					
3.	Max. Unambiguous Range	60 km; 2 nd trip echo removal necessary					
4.	Unambiguous Velocity	38 m/s; dual PRF and staggered pulse repetition time techniques.					
5.	Detection capability	Detection capability of 20 dBZ at 60 km, to be consistent with 75 m range resolution. Equivalent Scaled Minimum detection capability throughout the range of observation (150m to 60km) has to be demonstrated with calculations. Detailed analysis/references must be provided to support the detection capability.					
6.	Category of radar	Compact type, easy to transport and mount on building rooftop and dismantle					
7.	Radar Set-up	The entire radar systems shall be installed at specific locations within Mumbai suburban area. Four radars have to be deployed in network for synchronized operation.					
		TRANSMITTER					
1.	Types	Solid state					
2.	Frequency Range	9.35 GHz – 9.6 GHz, please specify the central frequency of each pulses and overall operational bandwidth requirement [not exceeding 20MHz].					
3.	Peak output power	Should meet detection capability of 20 dBZ at 60 km, as per Point No. 5 in GENERAL.					
4.	Pulse repetition frequency	To meet Range and Velocity requirement as per Points No. 3 & 4 in General Specification					
5.	Pulse width	Variable pulse widths to meet variable range resolution					
		including 75 m range resolution					
ANTENNA AND RADOME							
1.	Antenna	Prime focus parabolic antenna, please specify configuration; Diameter 1.25 m or less (to keep the System compact)					
2.	First Side lobe	-23 dB or better. Subsequent side lobe levels need to be better than -23 dB. Antenna pattern and related calculation must be provided.					
3.	Cross-pol. isolation	At the peak of the main beam, Cross polar component should be -30 dB or better. Calculation related to Cross-pol isolation must be provided.					
4.	Beam width	2.8° or less					
5.	Azimuth steering	360° and 0-6 rpm					
6.	Vertical Steering	-2° to +92° or better and up to 3 rpm					
7.	Polarization	Horizontal and Vertical with Simultaneous transmit and receive mode					
8.	Pointing Accuracy	± 0.1° typical					
9.	Scan strategy	Provision for automatic changeover between different scan strategies (PPI, RHI, Volume, Point mode, Sector, Sector blanking, and Manual).					
10.	Radome	(1) Type: Panel with non-hygroscopic coating;(2) Transmission Loss: two-way ≤ 0.6 dB					
11.	Wind load	Upto 120 km/hr and in gusting condition upto 140 km/hr					
	Lightening Protection	Lightening rod with dual ground wires.					

		All four Radar Sites should be provided with Active Lighting				
	arrestor with 75 meter protection radius.					
RECEIVER						
1.	Type	Multichannel Digital receiver for Dual Polarization (H&V)				
2. 3.	Receiver Noise figure	3 dB or less				
<u> </u>	Linear dynamic range Single Pulse Minimum	90 dB or higher -107 dBm or less for 2 MHz bandwidth				
4.	Detectable Signal	-107 dBill of less for 2 Mill2 ballawidth				
	RADAR SIGNAL PROCESSOR					
1.	Doppler processing	Pulse Pair and/or FFT				
_	mode	Olythau Flimingtian fou > 40 dD in museumes of weather				
2.	Clutter suppression	Clutter Elimination for > 40 dB in presence of weather. Information on filtering method for clutter elimination need to				
		be provided. Radar reflectivity data/image with and without				
		filtering of clutter needs to be provided. Clear demonstration of				
		quantitative separation of clutter from the data during the				
		weather is mandatory.				
3.	Conventional and	Z, V, S, ZDR, KDP, Φ _{DP} , ρ _{HV}				
0.	Polarimetric outputs	2, 1, 3, 251, 131, 451, 511				
		BRATION, DISPLAY AND DATA FORMAT				
1.	Calibration	(I) Provision shall be made for programmable (GUI based) and				
		auto run for absolute internal calibration to ensure reliability of polarimetric parameters at frequent intervals and display the				
		current values to maintain the system health and accuracy of				
		the product.				
		(II) An external calibration through standard external				
		equipment and validation of receiver linearity and dynamic				
		range using standard coherent source and standard measuring				
2.	Sun Calibration	equipment. Sun calibration in both software driven and manual mode				
۷.	Can Cambration	operation for pointing accuracy 1°. The system shall be made to				
		point towards sun for establishing the pointing accuracy of the				
		antenna; stability and reliability of receiver chain using solar				
	O	flux (sun) values known from other sources.				
3.	Control and monitoring software	(i) Computer system for remotely controlling and monitoring the network of 4 radars, status of radar and for controlling the				
	Suitwaie	operational parameters of radar. Synchronized operation and				
		control of all the 4 radars from a remote site.				
		(ii) Industry standard GUI software for radar control/operation.				
		Menu driven provisions to set scan strategies, repeated				
		Volume/Sector scan, Data acquisition, Various Radar display				
		options, Data storage in native binary and conversion to other formats etc. It shall include all weather radar operational				
		products.				
4.	Data Format	System should be capable of generating Radar Base data and				
		products in NETCDF formats (such as CFRadial) (online &				
		offline).				
1.	Application Software	SOFTWARE Using volume scan data, standard Met products such as PPI,				
	Application Software	RHI, CAPPI, Echo top, HMAX, VAD, VVP. Rainfall intensity by Z-R				
		& Dual pol. method, Hydrometeor Classification, Support of				
		single and multiple radar network, data correction (like rain				
		attenuation, beam blockage, Doppler velocity de-aliasing etc),				
		data integration with rain gauges, disdrometer and correction of				
		derived rainfall with rain gauge data. Detailed documentation and references on these weather				
		products and algorithms used is mandatory.				
<u> </u>		r				

Exact methodology implemented for rain attenuation correction should be described and supported by dataset/images with and without implementation of rain attenuation correction. Clear demonstration is mandatory.

Details on Software support for rain rate computation from radar must be provided. Clear demonstration is mandatory.

Hydrometeor classification product should be supported by datasets/images and references. Clear demonstration is mandatory.

RADAR WORKSTATION

1. | Computer Peripherals

- (a) Control Workstation at each Radar Sites: Quantity -4 Control Workstation will be located at each Radar Sites for operation, control of the radar and product generation and display of the data. The minimum specification required for Control Workstation follow as: HP/Dell or equivalent Make, Intel Core i-7 processor, NVIDA Quadro Graphics, 16 GB DDR4, 1 TB x 2 HDD, Wireless Keyboard & Optical Mouse, Giga LAN, R/W DVD Drive, 21 " (inches) color HD LED monitor
- (b) Standby Workstation for the radar control: Quantity -1 The minimum specification required for standby Workstation follow as: HP/Dell or equivalent Make, Intel Core i-7 processor, NVIDA Quadro Graphics, 16 GB DDR4, 1 TB x 2 HDD, Wireless Keyboard & Optical Mouse, Giga LAN, R/W DVD Drive, 21 " (inches) color HD LED monitor
- (c) Firewall: Quantity-4

Vendor need to provide programmable firewall for fixed IP with Giga LAN switch at each Radar Location.

(d) Display Workstation at IITM central location: Quantity -4 Separate Display Workstation required in IITM for each Radar Sites for Product generation and display of the data. This Display Workstation required to be connected to Control Work Station and will also transfer the Data at IITM server. The minimum specification required for Display Workstation follow as: HP/Dell or equivalent Make, Intel Core i-7 processor, NVIDA Quadro Graphics, 16 GB DDR4, 1 TB x 2 HDD, Wireless Keyboard & Optical Mouse, Giga LAN, R/W DVD Drive, 40" (inches) color HD LED monitor

(e) MOSAIC Server: Quantity -1

Vendor need to provide a mosaic server, which should have 10 TB HDD or latest for data receiving, retrieval, archiving and mosaicing with software for receiving, processing, visualization, data basing and archiving and communication accessories including cables, modems, switches etc.

General Specifications

- ✓ The servers should be fixed in a 19" (800x1000mm) rack with casters and glass door.
- ✓ The performance/benchmark during the acceptance of system will include,
- Raid 5 to be implemented on server with 5 hard discs.
- Dual Hot Redundant power supply
- 12 port Giga switch to be installed in the rack for connecting the nodes
- Dual port Wan hardware firewall should be provided

<u>Hardware Specification</u> (1 Number, within Central Station in 19" rack):

Intel® Xeon® E5-2600 (1.7GHz/8-core/20MB/1866 Mhz 85W)

		,12 DIMMS slots / 16 GB DDR4, 4 Tb X 5 storage Hot Plug SAS/SATA 10K RPM, RAID 0,1,5 (H730), DVD Writer, RPS 2X inbuilt (750W), 19" Display with wireless Keyboard and optical mouse. Visualization screen: Quantity 1 55 inch FHD display with thin client PC will be provide to visualize the mosaic data at IITM Central location. Network attached storage: Quantity 1 1) RAID controller. 2) 5 hard disks with 4 TB of capacity, on RAID 5. 3) Redundant power supply. (f) Laptop: Quantity 2 A portable computer (laptop) of latest version/ configuration such as Macbook Pro-13-inch with minimum specification of 3.1 GHz Intel Core i-5 processor, storage of 512 GB SSD or equivalent.					
		1	WER REQUIREMEN		V 50 .00///		
1.	Power				V, 50 ±2%Hz, in Single Three phase		
2.	Online UPS	phase or 400V ±10% V, 50 ±2% Hz in Three phase. UPS at radar site: Quantity -4 Suitable capacity to operate the whole radar system and control workstation for at least 18 hrs power back. Catering to required voltage stabilization with a power factor suitable for the system. Vendor need to provide Power budget Calculation.					
			t Central location :				
			Suitable capacity to run the whole computers, server and				
			display workstation for at least 9 hrs power back. Catering to required voltage stabilization with a power factor suitable for				
		-	the system. Vendor need to provide Power budget Calculation.				
	SP	ARES, TO	OOLS, AND TEST EQ	UIPMENTS			
1.		 (a) All consumable parts required for installation and testing shall be provided by the supplier by their own cost. (b) All spares used during the warranty maintenance period shall be replaced by the supplier at his own cost. These spares may be kept with IITM, Pune or IMD Mumbai, so as to avoid any delay. (c) The manufacturer shall also include any other recommended spares / test equipment's identified as critical 					
		item. A list showing all critical spares / test equipment's required for operation and maintenance of radar shall also be					
		provided along with bid document. (d) One set of standard and specialized tools required for repair,					
		disassembly and assembly of the system (like flat head and					
		Philips head screw drivers, ratchet-action multipurpose tool kit,					
				_	crimper, Nipper, Cutter,		
		Adjustable wrenches, Pliers, Allen keys, Tool box, short range walkie-talkie and hand gloves etc.) should be supplied. Detailed					
		tool kit list shall be provided by the supplier in the bid					
		docun		auinment rea	uired for installation and		
			g of radars in the r		anda for installation and		
			List of te	st Equipment's : (
		Sr. No.	Equipment	Make	Specifications		
		1 Oscilloscope Keysight Bandwidth 350 MHz DSOX3034T Sample rate: up to or 5 Gsample/s					

		equivalent	
2	Handheld Spectrum analyzer	Keysight N9000A or equivalent	Frequency range- 2 GHz to 20 GHz
3	Peak Power meter	Keysight N1913A or equivalent	Level range: -70 dBm to +44 dBm Frequency range: 9 kHz to 110 GHz
4	Peak Power sensor	Keysight E9300A or equivalent	Measurement range: - 60 dBm to +20 dBm Frequency range: 10 MHz to 18 GHz
5	Signal Generator	Anritsu MG3692Cor equivalent	Frequency range- 2 GHz to 20 GHz
6	Digital Multi- meter	Fluke-115 or equivalent	AC/DC Current, AC/DC Voltage, Capacitance, Continuity, Diode, Frequency, Resistance
7	Attenuator Set	Giga-tronics or equivalent	10 dB, 20 dB, 30 dB, 50 dB

⁽j) Set of test cables & adapters/ connectors.

⁽k) Hard and soft copies of detailed manuals of all the test equipment's shall be provided.(l) The cost of spares, tools & test equipment's will be included

for price comparison.

FORMAT FOR DELIVERABLES FOR SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF SHORT-RANGE X-BAND POLARIMETRIC DOPPLER WEATHER SCANNING RADAR (QTY - 04 SETS) NETWORK IN MUMBAI METROPOLITAN REGION WITH AN INTEGRATED RAIN MONITORING AND WARNING

S.No	Items	Qty.	Make Name	Model No. / Part No.	Country of origin	Whether complied as per required specifications
1	Short-range X-band dual polarized Doppler weather radar system including all units/sub units and accessories:	4 Sets				(Please tick mark properly)
1.1	Transmitter	4 Sets				YES / NO
1.2	Receiver	4 Sets				YES / NO
1.3	Antenna control unit and Radar control unit	4 Sets				YES / NO
1.4	Radar signal processor	4 Sets				YES / NO
1.5	Radome, Antenna &Antenna Pedestal	4 Sets				YES / NO
1.6	Workstations for radar control (including one standby)	5 Sets				YES / NO
1.7	Workstations for display	4 Sets				YES / NO
1.8	Workstations for MOSAIC	1 Set				YES / NO
1.9	Firewall	4 Sets				YES / NO
1.10	Radar Application and Operating Software	4 Sets				YES / NO
2	Laptop	2 Sets				YES / NO
3	Printer	2 Sets				YES / NO
4	Factory training and testing Note: Expenses for trainees such as travel, lodging and per diem to be borne by IITM	1 Set				YES / NO
5	Acceptance testing (Site)	4 Sets				YES / NO
6	Storage / Archival	4 Sets				YES / NO
7	Installation	4 Sets				YES / NO
8	Application software for product generation as listed in APPENDIX NO. – 1, Section 5	4 Sets				YES / NO
9	Any other unit/subunits/item not listed above but required for functioning of DWR shall also be included	4 Sets				YES / NO
10	One year warranty services for radars System and central server	4 Sets				YES / NO
11	Installation material	4 Sets				YES / NO
12	Documentation (technical and manual) both hard copy and soft copy (1 Set per Site)	4 Sets				YES / NO
13	Communication hardware/software for data transfer to central location.	4 Sets				YES / NO
14	Suitable UPS for radar site	4 Sets				YES / NO
15	Suitable UPS for central location	1 Sets				YES / NO
16	Voltage stabilizer	4 Sets				YES / NO
17	Test Equipment's (Oscilloscope, Handheld Spectrum analyser, Peak Power meter, Peak Power sensor, Signal Generator, Digital Multi-meter and Attenuator Set) as mentioned in Table 1	1 Set				YES / NO
18	Air conditioner (AC) Enclosure of 2.5m x 2.5m size	4 Sets				YES / NO
19	Chair and Table for AC Enclosure	4 Sets				YES / NO
20	Training to IITM personnel at each site after completion of installation / commissioning for five working days. Note: Expenses for trainees such as travel, lodging and per diem to be borne by IITM	4 Sites				YES / NO
	4 years (Year-wise) Comprehensive Annual Maintenance Contract (CAMC) after the expiry of 1 year warranty period	4 Sites				
21	1stYear CAMC					YES / NO
	2ndyear CAMC					YES / NO
	3 rd Year CAMC					YES / NO
	4 [™] Year CAMC				1	YES / NO

<u>Terms & Conditions of Comprehensive Annual Maintenance Contract (CAMC) 4 numbers of Short-range X-Band Dual Polarimetric Doppler Weather Radars</u>

- 1. The CAMC includes Control Center and Radar Site Material & Services inclusive of all Computer peripherals, Printers, Radar modules, spares, components, cables, connectors etc and radar related materials like UPS, Radome, Tower, etc. and the removed/replaced defective material becomes the property of "The Contractor".
- 2. The CAMC clause will be applicable for control center and individual radar sites separately.
- 3. The CAMC will commence immediately after the expiry of the warranty period. The comprehensive service includes preventive and corrective maintenance and free replacement of all the defective parts/devices. The company should submit a detailed CAMC plan including preventive maintenance schedule.
- 4. The "Contractor" shall supply the details of its call center meant for booking the complaints along with the contact numbers like mobile nos., phone nos., mail address and names etc of its service engineers.
- 5. The radar shall be decommissioned for a period of two weeks for annual preventive maintenance and upkeep in a cyclic mode.
- 6. The "Contractor's" engineers attending to the system are required to make all entries of their work done and corrective measures taken by them with their signatures in the log book kept with the Radar.
- 7. Overall uptime of the system shall be at least 95%. If there is a failure of the system for more than the criteria stipulated then the CAMC amount of 0.25% per day, for days it is down will be deducted, subjective to an upper ceiling of 10% of CAMC charges for that quarter. If the failure duration extends beyond one month then the contract may be terminated and cost of its repair from alternate source will be recovered from the "Contractor" and performance security may be forfeited. Maximum two weeks shutdown for annual maintenance shall not come under the clause. Radar down time due to external factors and severe natural calamity beyond human control shall exempt the criteria.
- 8. Period of CAMC for radar set will be started after expiry of one year standard warranty of each radar and the same will be informed by IITM to the supplier in writing. IITM reserves the right for awarding of CAMC after assessing of the services & its performance provided during the warranty period.
- 9. The mode of payment will be quarterly and it will be made after end of each quarter on the basis of satisfactory performance certificate from user.
- 10. "The Contractor" will assist IITM for regular backups of all the software. The "Contractor" is also required to restore the existing Software from the Backups whenever required.
- 11. "The Contractor" will also be responsible for configuring the networking components.
- 12. CAMC contract will be signed for four years. If required, contract may be extended by IITM. However, IITM reserves the right to terminate the contract at any time by giving three months' notice, if the performance of the system or the services rendered by the supplier is not found satisfactory.

- 13. The "Contractor" has to submit an undertaking that it will not use IITM data for any commercial purpose.
- 14. This contract shall be governed in all respects by Indian Laws.

- Sd -ADMINISTRATIVE OFFICER IITM, PUNE - 411 008 E-mail : psu.iitm@tropmet.res.in