Minutes of the meeting of Pre-Bid Committee for Procurement of 08 Nos.ofpolarimetric S-Band DWRsheld on 19.05.2025 at 1100 hours IST

India Meteorological Department (IMD) has invited bids videTender No.CPU/53/0525/1552dated 19.05.2025 for the procurement, installation and commissioning of 08 Nos. of polarimetric S-Band Doppler Weather Radars (DWRs)under Mission Mausamthrough CPP portal of the Government of India and IMD website. Secretary, MoES has constituted the following Pre-bid Committee vide File No.DGM-HQ-24010/28/2024-UAID vide Note#330 dated 16.05.2025 comprising the

3. 4. 5. 6. 7. 8.	Dr. T. Narayana Rao, Scientist-G, NARL, Department of Space Shri S. Gopal Krishna, Director (IFD), Ministry of Earth Sciences Wing Commander Rahul Sharma, Indian Air Force Shri Santosh Kumar S., DDG (A&P), IMD Shri Kapil Dev Meena, Director (Finance), IMD Dr. Soma Sen Roy, Head, Radar Division, IMD Shri B.A.M. Kannan, Scientist-F, RMC Chennai, IMD Dr. S.I. Laskar, Scientist-F, CPU, IMD Shri Rangaraj A.G. Scientist-F. Radar Division, IMD	Member Member Member Member Member Member
9.	Shri Rangaraj A.G, Scientist-E, Radar Division, IMD .Ms. Arpita Rastogi, Scientist-D, Radar Division, IMD	Member Member Secretary

The representatives from the following firms attended the Pre-Bid meeting:

- 1. M/s Bharat Electronics Limited, Bangalore.
- 2. M/s Astra Microwave Products Limited, Hyderabad.
- 3. M/s Data Patterns (India)Private Limited, Chennai.
- 4. M/s LOTUS Microwave Technologies Pvt Ltd, Hyderabad.
- 5. M/s Avantel Limited, Hyderabad.
- 6. M/s Singh Corporation, Gurugram.
- 7. M/s Tata Advanced systems limited, Hyderabad.

Shri Kapil Dev Meena did not attend the meeting due to pre-occupation with other official duties.

The Pre-Bid meeting was held in hybrid mode on 19th May, 2025 at 11:00 hours IST in the mini-conferenceroom, DGM, Mausam Bhawan, New Delhi. The committee discussed and deliberated on all the Pre-Bid queries submitted by prospective bidders vis-à-vis the published tender document. The detailed response of IMD to the queries raised by various firms in writing via email is tabulated below:

S. No.	ence	per RFP		Remarks
M/s	Astra Micro	wave Products Limi	ted, Hyderabad	
1.	Page No. 15 Appendix to NIT: Tender Informati on	all the 08 DWR along with associated systems including AWS and disdrometers to be installed, accepted	Considering that some of the site locations are away from mainland, it is highly difficult to meet the project	"First DWR, along wit

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S. No.	RFPRefer ence	Requirement as per RFP	Query	Remarks
	Summary Terms of Delivery	within 14 months from the date of issue of contract agreement.	months. Hence, it is requested to kindly extend the project timeline to 30 months.	date of issue of the contract agreement. The remaining 7 DWRs, along with associated systems including AWS and disdrometer, are to be installed, accepted and commissioned within 18 months from the date of issue of the contract agreement in a phased manner."
2.	Page No. 168 Radome and Tower	20m (minimum & scalable) with quote for additional height for every 5 meters.	Considering the size of Antenna and pedestal, it will be challenging to design a suitable tower structure to withstand 250 km/hr wind load. Moreover, there are no S-Band tower mounted Radars in India presently. Hence, it is requested to kindly reconsider concrete structure for Radar mounting.	As per tender document.
		ited, Hyderabad.		
1.	Page No. 200 Section VIII: Qualificati onCriteria	Para No: 1 Experience and Past Performance Point no b: The bidder shall be a weather radar manufacturer	supplied a 49 MHz Wind ProfilerRadar to SHAR. Kindly clarify whether this experience can be considered for eligibility toparticipate in the current bid."	As per tender document. Refer Section VIII clause 1.0 "Experience and past performance"
2.	Page No. 07 Appendix to NIT: Tender Informati on	Terms of Delivery All the 08 DWR along with associated systems including AWS and disdrometers to be	We request that all 08 DWR units, along with the associated systems including AWS and disdrometers,	May be read as: "First DWR, along with associated systems, including AWS and disdrometer, to be installed, accepted and
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S. No.	RFPRefer ence	Requirement as per RFP		Remarks
	Summary	installed, accepted and commissioned within 14 months from the date of issue of contract agreement.	andcommissioned within a period of 24 months.	commissioned within 15 months from the date of issue of the contract agreement. The remaining 7 DWRs, along with associated systems including AWS and disdrometer, are to be installed, accepted and commissioned within 18 months from the date of issue of the contract agreement in a phased manner."
M/s	Bharat Elect	ronics Limited, Ber	ngaluru	mariner.
1.	Page No: 7 Appendi x to NIT: Tender Informat ion Summar y (TIS) Terms of Deliver y	All the 08 DWR along with associated systems including AWS and disdrometer to be installed, accepted and commissioned within 14	Considering the time required for procurement of long lead items like Klystron tubes, MW components, Power Amplifiers and manufacturing	May be read as: "First DWR, along with associated systems, including AWS and disdrometer, to be installed, accepted and commissioned within 15 months from the date of issue of the contract agreement. The remaining 7 DWRs, along with associated systems including AWS and disdrometer, are to be installed, accepted and commissioned within 18 months from the date of issue of the contract agreement in a phased manner."
2.	Page No. 185 Section VII:	A single value quoting consolidated/bund led price inclusive	In the BOQ format or Price Schedule, there is no line item or Sl. No. to	As per Tender document

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S. No		per RFP		Remarks
	Quality Assurance Para 16: COMPREH NSIVE ANNUAL MAINTENA NCE CONTRACT	tio taxes/ GST f nd CAMC should to quoted instead separate yea wise CAM charges for seve years.	or price. Please indicate where to include consolidated /bundled price for CAMC?	
M/s	Data Patte	rns (India) Private	Limited, Chennai	
2	BoQ	General query on BoQ	In BoQ GST value is not multiplying in total Taxes to	As per tender document and demonstrated during the Prebid.
	BoQ	General query on	In BoQ, Amount in House is not including GST value.	The Column 18(BC) Heading of the BoQ may be read as: Total Amount (in quoted urrency, excluding exes), in words:"
	BoQ	General query on BoQ	for CAMC to quote the same should be quoted in Unit price.	As per Tender document
5			separate provision and also there is a note that says unit price is to include warranty and CAMC. In item	Q" all columns, for the line m number 1.30 in eference Sheet" of BoQ, ase enter the value as 0
Pa	age no 15 a ara 2 a s	L. All the 08 DWR salong with for sessociated ystems including In	change delivery chedule as "Fir asso included and disd	st DWR, along with ociated systems, uding AWS and lrometer, to be alled, accepted and
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S. No.	RFPRefer ence	Requirement as per RFP	Query	Remarks
		disdrometers to be installed, accepted and commissioned within 14 months from the date of issue of contract agreement.	First Radar in T0+15 Months and remaining radar in T0+24 Months	months from the date of issue of the contract agreement. The remaining 7 DWRs, along with associated systems including AWS and disdrometer, are to be installed, accepted and commissioned within 18 months from the date of issue of the contract agreement in a phased manner."
	Enterprise El	ectronics Corporat	tion, United State of	f America
1.	adhered procurement of days for isnearly 4-5 complex projects with p May, 2025 with a provide a deadline.	to established norms of providing to preparing and submales of the clear working weeks ject, the bid was and re bid meeting poing and gain not enough time and week extension	nts desired by 16th bid closingon 31st e is provided. Please to thesubmission	
2	Please confir and MII.	m if the tender is G	lobal only, not local	The tender is published as a Global tender Enquiry. Please refer to MII preference in tender document at Clause no 4.0 (Page no 9) "Minimum local content for eligibility to participate ITB-clause 4.1.4 (Make in India Policy)" of Appendix to NIT: Tender Information Summary (TIS)
3	been more p and scope of reading the 2 to read throu	several conflicting to brudent to give the work with standard t 282 pages andagain ugh entire document prerrors & omission.	detailedspecification tender terms, rather the onus on vendor	As per Tender document
4	What are the Radars would air, hence IN beneficial for basis and shi	terms of delivery , d be shipped by Sea AD may clarify . Als IMD to get the deliv pping through the G freight forwarder	a port only ,not by so please note it is very onFOB sea port	As per Tender document. Refer Clause no 2.0 (Page no 7) "Terms of Delivery" of Appendix to NIT: Tender Information Summary (TIS)

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S. No.		Requirement as per RFP		Remarks
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10	requirement of IMD, how can ensure to would be em employment be changed most a Radione or two per day monito maintenance	of manpower shou it is envisaged that he diligent working ployed and land of later management is foll in the largerinteres ar Manufacturing coeple aredeployed at ring and performetc.		
11	extremelyburnultimate user Radarmanufacturing running inGov	eaucratic process, head, should apply for cturer would like the quality Rackernment corridors is une in their role.	nce, it is an ence IMD being the such licenses , the to focus on lar system rather , this is something	
12	Transportation ultimate site	n from seaport /cust is the responsibility in the past also.	oms in India to the of IMD andit has	Refer Clause no 2.0 (Page no 7) "Terms of Delivery" of Appendix to NIT: Tender
13	theprefabricate	ure that all municipelectricity powered room will be esse electricity bills w	er supply to	Information Summary (TIS) All municipal and other local clearances, electricity power supply will be facilitated by IMD. Electricity Bills will be paid by IMD after successful acceptance and commissioning.
	A&NIslands. To locations depote vessels and impediments can this kindof del	ne cransportation	Car Nicobar in to these remote ility of required Several other over schedule, how existed? Please see	Section VII: Technical Specifications and Quality Assurance. Clause 15 Delivery Schedule Point no i. May be read as: "First DWR, along with associated systems, including AWS and disdrometer, to be installed, accepted and commissioned within 15 months from the date of issue of the contract

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S. No.	RFPRefer ence	Requirement as per RFP	Query	Remarks
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15	installed on be reinforced which site th	building, whether the d to withstand the h e 20 m tower iscons		As per tender document
16	and its perip prices on co- like civil wor and other st Rupees and	pherals prices from to provertible currency, rks, AC , prefabricat tuff as per RFP can	ommodate the Radar the country-of-origin and local services, ed cabin, manpower, be quoted in Indian anbe placed on this th OEM of Radar?	No.
17	Clarifications technical technicalspectime to clarification. In above.	s on technical s team is still cifications and will prepare question Please see extension	As per Tender Document	
	Y	ed Systems Ltd., H	yderabad Submission date	
1.	3.0 Cri cal Dates (ITB- clause 7.0; 8.0; 9.0, 10.0 and 11.0)	Ess.	for the tender with 8 S-band sites for installation should be no earlier than one month after the site visit and all clarifications answered by IMD (whichever comes the last). The current submission date is not suitable for correct and efficient bidding. Request extension of 4 weeks.	As per tender document.
2	Page	Required Delivery	Delivery,	May be read as:

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S.	RFPRefer	Pequirement as	0	D
No.	ence	Requirement as per RFP	Query	Remarks
	161	systems including AWS and dis-dro meters to be installed, accepted and commissioned within 14 months from the date of issue of contract agreement. In this regard, the contractor will submit the actual schedule along with the timeline for execution of installation and commissioning work for each radar.	commissioning time of 14 months for 8 S-band klystron machines is unrealistic, considering all klystrons of frequency are produced as per order (not available off the shelf) and are delivered not earlier than 9 to 18 months after the order (depending on the quantity). Thus, the minimum time for commissioning of all 8 systems should be 24 months.	including AWS and disdrometer, to be installed, accepted and commissioned within 15 months from the date of issue of the contract agreement. The remaining 7 DWRs, along with associated systems including AWS and disdrometer, are to be installed, accepted and commissioned within 18 months from the date of issue of the contract
	In reference CPU/53/052 clarifications preference a laid out Gov • Under Se Bidders() "Support Small En that the Small incenterpris • We qualification "Registrati "Registrati "Registrati "Registrati "GOI, the financial qualify as Considering	wave Technologies to the IMD Tender 5/1552, we hereby regarding the appropercy of India (GOI). The ection-II of Instruction (ITB), clause 4 and some represental Treation of GOI to some shall apply to the five as an MSE under on criteria mention tion of MSEs" (pleation of MSEs" (pleation of MSEs") in the ecriteria of prior externover are relaxed that as per the ecriteria of prior externover are relaxed that as per the above points, where the above points, where the ecriteria of the ecriteria in the ecriteria of	Reference No. request licability of as per the rules lions To sub-clause 4.2 ment to Micro & t is mentioned upport Micro and son to non-MSE is procurement. the given ed cluse 4.2.1 lise find attached s regard) the policy of perience and ed for bidders that we request your	Relaxation to Micro and Small Enterprises (MSEs) and start-ups shall be provided as per Chapter 1, Clause 1.11.2 (4) & Clause 1.11.5(2) respectively of the 'Manual for Procurement of Goods' (Second Edition, 2024), issued by the Ministry of Finance, Department of Expenditure, Government of India, subject to submission of valid supporting documents.

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NO.	RFPRefer ence	requirement as	Query	
	Prior Experi	per RFP relaxation of Finan ence and Past Perfo firm which is an N	cial Turnovor	Remarks
		ed by the participants	136.	

Further, as requested by the participants, IMD provided a demonstration of the BoQ data entry methodology and explained the significance of each column in detail.

1. During the meeting, IMD clarified that in the BoQ excel sheets, the column number 11 may be read as "BASIC RATE IN Figures to be entered by the bidder in quoted currency".

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- 2. In section V Special Conditions of Contract (SCC)GCC 10.3.1, 10.3.2 (Terms and Mode of payments) point a to fand in GCC 10.3.3 (Payment Conditions) the Text from "Payment shall be ..."to"...Released in Equal proportion for each of the 8 sites..."shall be read as "a) Payment shall be made for each radar and other associated systems including AWS and disdrometers as proposed in the tender per site
- b)Twenty five percent (25%) of total contract value will be paid as advance payment, as per GFR clause 172-1 (ii)(a) against 110% Unconditional Advance Bank Guarantee (as per format given at Format 1.1.1) of the advance to be submitted by the firm after issuance of supply order to support the bidder in design and manufacturing of high-end engineering goods. Such Bank Guarantee shall remain effective until the advance payment has been fully repaid / adjusted. And if the Contract is terminated due to default of the Contractor, the advance payment would be deemed as interest bearing advance at the interest rate of PBLR + 2% to be compounded quarterly and recovered by IMD from the 110% Unconditional Advance Bank Guarantee.
- c) Sixty percent (60%) of contract value, including the advance amount, will be paid after receipt of goods at each site on prorata basis, after adjustment of Advance Payment
- d)Fifteen percent (15%) payment of contract value toward stores will be made, on a pro-rata basis, after successful installation, functional test, completion of training, commissioning and acceptance of system at each site.
- e) Five Percent (5%) payment of the contract value, shall be made quarterly during the three-year warranty period, on a pro-rata basis, against the bill submitted by the supplier. The payment shall be released in accordance with the satisfactory operation of RADAR and data availability from the respective DWRsite, as per the table below:

Warranty Year	Percentage of total project cost to be released
1 st	1%
2 nd	2%
3 rd	2%
Total	5%

f) Remaining Twenty Percent (20%) payment of the contract value, shall be made quarterly during the seven Years CAMC period, on a pro-rata basis, against the bill submitted by the supplier. The payment shall be released in accordance with the satisfactory operation of RADAR and data availability from the respective DWRsite, as per the table below:

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CAMC Year	Percentage of total project cost to be released
1 st	0.4%
2 nd	1.2%
3 rd	2.0%
4 th	2.8%
5 th	3.6%
6 th	4.4%
7 th	5.6%
Total	20%

- 3. In section V Special Conditions of Contract (SCC) GCC 10.3.4 (Advance Payment) and Section II ITB 6.4.2 shall be read as "Twenty five percent (25%) of total contract value will be paid as advance payment, as per GFR clause 172-1 (ii)(a) against 110% Unconditional Advance Bank Guarantee (as per format given at Format 1.1.1) of the advance to be submitted by the firm after issuance of supply order to support the bidder in design and manufacturing of high-end engineering goods. Such Bank Guarantee shall remain effective until the advance payment has been fully repaid / adjusted. And if the Contract is terminated due to default of the Contractor, the advance payment would be deemed as interest bearing advance at the interest rate of PBLR + 2% to be compounded quarterly and recovered by IMD from the 110% Unconditional Advance Bank Guarantee"
- 4. In section II, clause no 6.1.3(3)(a) Comprehensive Annual Maintenance Contract (CAMC) shall be read as "Comprehensive Annual Maintenance Contract (CAMC): If so stipulated in TIS/ AITB, the Bidders shall carry out postwarranty Comprehensive Annual Maintenance Contract (CAMC) for seven years after the expiry of the warranty period. They should mention the maintenance schedule under the CAMC, and other details of spares to be used in such preventive maintenance. The terms & conditions of CAMCmust specify the maximum down time and maximum response time. An amount equivalent to 20% of the total contract value will be paid during the 7 years CAMC period, as per thepayment terms of the tender. The cost of spares and service charges utilized during the seven-year CAMCperiod shall be included in the D.A.P. destination price.

5. In line with Government of India's Office Memorandum No. F.1/2/2023-PPD dated 01.01.2024, the Performance Security shall be read as 5% in place of 10%.

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6. In addition to the above, the Pre-bid Committee deliberated about the changes proposed by IMD during the meeting, and considering the timelines of Mission Mausam, recommended that no additional changes (except as mentioned above) will be made in the tender document. All other terms and conditions including manpower requirements, shall remain as specified in the published tender document and will be entered accordingly in the BoQ by the bidder.

The meeting ended thanking all the participants and the committee members.

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(T. N. Rao)

(S. Gopal Krishna)

(Wg Cdr Rahul Sharma)

(Santosh Kumar S.)

(Kapil Dev Meena)

(B.A.M. Kannan)

(S.I. Laskar)

(Arpita Rastogi)

Format: BANK GUARANTEE FORMAT FOR ADVANCE PAYMENT

The President of India, through Head of Procurement India Meteorological Department Ministry of Earth Sciences, Govt. Of India, New Delhi	
WHEREAS on or about theday ofday ofday of	s e s
1. AND WHEREAS under the terms and conditions of the contract an amount of Rs(Rupees Only) representing Only) is to be paid by government to the contractor.	
2. AND WHEREAS AND WHEREAS the Government has agreed in pursuance of the said terms and conditions of the contract to make an advance payment of Rs. (Rupees only) to the Contractor on the Contractor furnishing a Bank Guarantee in the manner herein contained.	
3. NOW WE, (Bank) in consideration of the Government havingagreed to pay to the Contractor an advance paymentofRs. (Rupees agree and undertaketo indemnify the Government and keep the Government indemnified to the extent of a sum not exceeding the said sum of Rs. (Rupees only) against any damage or loss that may be conditions of the contract by the Contractor.	
to pay theamount due and payable under this guarantee without any demur merely on a Sciences, Govt. Of India, New Delhi on behalf of the Government stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by conditions contained in the said agreement or by reason of the Contractor(s) of any of the terms and perform the said agreement. Any such demand made on the bank shall be conclusive as liability under this guarantee, shall be restricted to an amount not exceeding Rs	
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5. We,
6. AND We,
7. We
8. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
9. Our guarantee shall remain in force until and unless a claim under the guarantee is lodged with us within six months from that date all rights of the government under the guarantee shall be relieved and discharged from all liabilities thereunder.
Dated the day of 20
(Indicate the name of bank)
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