



Ministry of Earth Sciences

**India Meteorological Department
Mausam Bhawan, Lodi Road
New Delhi-110003**

**GLOBAL TENDER ENQUIRY
(INTERNATIONAL COMPETITIVE BIDDING)**

Tender Document

Tender Reference Number : CPU/53/0725/1553

Date: 26-07-2025

**For procurement of 20 C-Band and 25 X-Band
Polarimetric Doppler Weather Radar Systems**

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Section I: Notice Inviting Tender (NIT)

1. Notice Inviting Tender (NIT)

The President of India, through the Head of Procurement of the Procuring Entity, in the Procuring Organisation (hereinafter referred to as 'the Authority', 'the Head of Procurement', 'the Procuring Entity' and 'the Procuring Organisation' respectively), invites bids for entering into a contract for the supply of GOODS (hereinafter referred to as 'the Goods'). This Tender Document reference number, CPU/53/0725/1553 (hereinafter referred to as 'the Tender Document'), gives further details.

2. The Tender Document

2.1 Bidders must read the complete 'Tender Document'.

This NIT is an integral part of the Tender Document and serves a limited purpose of invitation, and does not purport to contain all relevant details for submission of bids. 'Tender Information Summary' (TIS) appended to this notice gives a salient summary of the tender information. Any generic reference to NIT shall also imply a reference to TIS as well. Bidders must go through the Tender Document for details before submission of their Bids. However, Bidders must go through the complete Tender Document for details before submission of their Bids.

2.2 Availability of the Tender Document

The Tender Document shall be published on the Portal. It shall be available for download after the date and time of the start of availability till the deadline for availability as mentioned in TIS. Unless otherwise stipulated in TIS, the downloaded Tender Document is free of cost. If the Procuring Entity happens to be closed on the deadline for submitting the bids as specified above, this deadline shall *not* be extended. Any query/ clarification regarding downloading Tender Documents and uploading Bids on the e-Procurement portal may be addressed to the Help Desk (contact details given in TIS).

2.3 Clarifications

A Bidder requiring any clarification regarding the Tender Document may ask questions in writing/ electronically from Office/ Contact Person as mentioned in TIS, provided the questions are raised before the clarification end date mentioned in TIS (or if not mentioned, before 7 days of the deadline for the bid submission). This deadline shall not be extended in case of any intervening holidays.

3. Eligibility Criteria for Participation in this Tender

Subject to provisions in the Tender Document, participation in this Tender Process is open to all bidders who fulfil the 'Eligibility' and 'Qualification criteria. Bidder should meet the following eligibility criteria as of the date of his bid submission and should continue to meet these till the award of the contract. Bidder shall be required to declare fulfilment of Eligibility Criteria in Form 1.2 (Eligibility Declarations). The Bidder, unless otherwise stipulated in TIS/ AITB:

- 1) must:

- (a) be a natural person, private entity, or public entity (State-owned enterprise or institution).
- (b) unless permitted explicitly in TIS/ AITB, not be (or proposes to be, a Joint Venture/ Consortium (an association of several persons, firms, or companies - hereinafter referred to as JV/C).
- (c) be a manufacturer of the product offered or be dealer authorised by the Principal/ OEM.

2) must:

- (a) not be insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of these reasons.
- (b) (including their affiliates or subsidiaries or Contractors/ subcontractors for any part of the contract)
 - (i) Not stand declared ineligible/ blacklisted/ banned/ debarred by the Procuring Organisation or its Ministry/ Department from participation in its Tender Processes; and/ or
 - (ii) Not be convicted (within three years preceding the last date of bid submission) or stand declared ineligible/ suspended/ blacklisted/ banned/ debarred by appropriate agencies of Government of India from participation in Tender Processes of all of its entities, for:
 - offences involving moral turpitude in business dealings under the Prevention of Corruption Act, 1988 or any other law; and/or
 - offences under the Indian Penal Code or any other law for causing any loss of life/ limbs/ property or endangering Public Health during the execution of a public procurement contract and/ or
 - suspected to be or of doubtful loyalty to the Country or a National Security risk as determined by appropriate agencies of the Government of India.
 - (iii) Not have changed its name or created a new business entity as covered by the definition of “Allied Firm”, consequent to having been declared ineligible/ suspended/ blacklisted/ banned/ debarred as above;
 - (iv) Not have an association (as a bidder/ partner/ director/ employee in any capacity)
 - of retired Manager (of Gazetted Rank) or a retired Gazetted Officer of the Central or State Government or its Public Sector Undertakings if such a retired person has not completed the cooling-off period of one year after his retirement. However, this shall not apply if such managers/ officers have obtained a waiver of the cooling-off period from their erstwhile organisation.
 - of the near relations of executives of Procuring Entity involved in this Tender Process
- (c) Not have a conflict of interest, which substantially affects fair competition. The prices quoted should be competitive and without adopting any unfair/ unethical/ anti-competitive means. No attempt should be made to induce any other bidder to submit or not to submit an offer for restricting competition

3) must fulfil any other additional eligibility condition, if any, as may be prescribed, in TIS or elsewhere in Tender Document.

- 4) must provide such evidence of their continued eligibility to the Procuring Entity if so requested.
- 5) of Class-II Local Suppliers and Non-Local Suppliers (as defined in Make-in-India policy) shall be eligible subject to certain conditions as detailed in the ITB-clause 4.1.
- 6) from specified countries having land borders with India (but not in development partnership with India) shall be eligible subject to certain conditions as detailed in the ITB-clause 3.3.

4. Purchase Preference Policies of the Government

As detailed in the Tender Document, the Procuring Entity reserves its right to grant preferences to eligible Bidders under various Government Policies/ directives (policies relating to Make in India; MSME; Start-ups etc.).

5. Pre-bid Conference:

If so indicated in TIS, Bidders are requested to attend a Pre-bid conference for clarification on the Tenders' technical specifications and commercial conditions, on the time, date, and place mentioned therein. Participation in such a Pre-bid Conference is not mandatory. If a bidder does not participate or submit any query, then no subsequent representations from them regarding the Technical/ commercial specifications/ conditions shall be entertained.

6. Submission of Bids:

- 1) Bids must be uploaded till the deadline for submission mentioned in TIS. If the office happens to be closed on the deadline to submit the bids as specified above, this deadline shall *not* be extended. Conditional Bids or more than one bid or alternative bids shall be unacceptable.
- 2) No manual Bids shall be made available or accepted for submission. Bidder must comply with the conditions of the eProcurement portal, including registration, compatible Digital Signature Certificate (DSC) etc. In the case of downloaded documents, Bidder must not make any changes to the contents of the documents while uploading, except for filling in the required information.
- 3) As per current Government orders, in lieu of bid security, bidders must furnish Bid Securing Declaration (BSD) as 'Form 7: Documents Relating To Bid Security' in their bid as per format given therein. The BSD shall be drawn in favour of the authority stipulated in TIS. A self-attested scan of the original Form 7 should be uploaded along with bids. Bids not complying with these provisions shall be rejected.
- 4) **Integrity Pact:** If so indicated, in the TIS/ AITB, all Bidders shall have to sign the Integrity Pact with the Procuring Entity as per 'Form 8: Integrity Pact'. Bids without a signed Integrity Pact shall be rejected.
- 5) Upon submission of bids and / or bids opening, any request for any type of error / ambiguity will not be accepted.

7. Bid Opening

Bids received shall be opened online at the specified date and time given in TIS. If the office is closed on the specified date of opening of the bids, the opening shall be done on the next working day at the same time.

8. Price bid evaluation/award

In case of two or more parties quote the similar rates as L-1, then split of work can be considered for proportionate quantity supply on parallel basis.

9. Disclaimers and Rights of Procuring Entity

The issue of the Tender Document does not imply that the Procuring Entity is bound to select bid(s), and it reserves the right without assigning any reason to

- (a) reject any or all of the Bids, or
- (b) cancel the tender process; or
- (c) abandon the procurement of the Goods; or
- (d) issue another tender for identical or similar Goods

Note: Please refer to appended TIS and the complete Tender Document for further details.

Digitally Signed by

Tender Inviting Authority

[Insert Name, Designation, and contact details of Tender Inviting Authority]

Appendix: Tender Information Summary (TIS)

Appendix to NIT: Tender Information Summary

Document No. CPU/53/0725/1553; Tender Title: PROCUREMENT OF 20 C-BAND AND 25 X-BAND POLARIMETRIC DOPPLER WEATHER RADAR SYSTEMS

(Ref ITB-clause 1.4)

Tender Information Summary (TIS)			
1.0 Basic Tender Details			
Tender Title	Procurement of Twenty (20) number of C-Band and Twenty Five (25) number of X-Band Polarimetric Doppler Weather Radar Systems		
Tender Reference Number	Tender Enquiry No. CPU/53/0725/1553	Tender ID	As per GeM Portal/CPP Portal
Tender Type	Open Tender – Global Tender Enquiry	Form of Contract	Tender cum Auction
Tender Category	Goods	No. of Covers	Two Covers
Bidding System	Two bid system	e-Reverse Auction to be held after Financial bid opening (See AITB also in case of Yes)	Yes
the Procuring Organisation:	India Meteorological Department	the Procuring Entity:	Central Purchase Unit
Authority on whose behalf Tender is invited	President of India	Through	Director General of Meteorology
Tender Inviting Authority (TIA)	Director General of Meteorology	Address	India Meteorological Department, Mausam Bhawan, Lodi Road, New Delhi-110003
Appointing Authority for Arbitration	Secretary, Ministry of Earth		

	Sciences.		
2.0 Requirement Details (ITB-clause 5.0)			
Evaluation Basis	Schedule-wise/ Consignee wise	Part quotation allowed or not	Part quotation not allowed
Inspection Type	Pre-dispatch inspection at Factory	Inspection Agency	India Meteorological Department
Schedule	Mentioned in Section VI		
Item Details:	Mentioned in section VII of this document	Qty and Units	20 C-band Radars and 25 X-band Radars
Consignee/ State:	45 sites over India		
Terms of Delivery	DAP	Completion date of Delivery:	1. All the 20 C band and 25 X band along with associated systems including AWS and disdrometer to be delivered, installed, accepted and commissioned within 18 months from the date of issue of the contract agreement. 2. Detailed Design Review (DDR) will be held after one month from the date of issue of supply order where-in the design of hardware & software 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 TENDER DOCUMENT. 3. All the items are required to be delivered directly at respective sites. Dispatch of stores will be on DAP basis. The firm will be responsible to deliver the items at each site.
3.0 Critical Dates (ITB-clause 7.0; 8.0; 9.0, 10.0 and 11.0)			
Published Date	26-07-2025	Bid Validity (Days from the date of Bid Opening) – ITB-clause 9.3	180 days
Document Download Start Date & Time	26-07-2025, 10:00 hrs IST	Document Download End Date & Time	09-09-2025, 10:00 hrs IST
Clarification Start Date & Time	26-07-2025, 10:00 hrs IST	Clarification End Date & Time	06-08-2025, 18:00 hrs IST
Bid Submission Start Date & Time	26-07-2025, 10:00 hrs IST	Bid Submission Closing Date & Time	09-09-2025, 10:00 hrs IST
Bid Opening (Techno-commercial bid) Date & Time	10-09-2025, 10:00 hrs IST	Bid Opening (Financial bid) Date & Time	To be intimated later
4.0 Eligibility to Participate (NIT-clause 3 and ITB-clause 3.2)			
Is this item reserved for exclusive Procurement from MSEs	No		
Nature of Bidders eligible – OEMs/ Dealers authorised by OEMs	No Restriction		
Entities from countries not eligible to participate on reciprocal basis ITB-clause 4.1.2	-		

(Make in India Policy)	
Minimum local content for eligibility to participate ITB-clause 4.1.4 (Make in India Policy)	Class-I Local Suppliers: 50% Class -II Local Supplier: more than 20% but less than 50% Non-Local Supplier less than 20%
Classes of Local Suppliers eligible to participate ITB-clause 4.1.4 (Make in India Policy)	All classes of Contractors (Class-I, Class-II and Non-local) eligible – Global Tender Enquiry
Mandatory Joint venture with Indian Company ITB-clause 4.1.7 (Make in India Policy)	Yes
5.0 Thresholds for Eligibility to Participate and Preference under Make in India Policy (ITB-clause 4.1)	
Classification of Local Suppliers based on Minimum local content ITB-clause 4.1.1	Class-I Local Suppliers: 50% Class -II Local Supplier: more than 20% but less than 50% Non-Local Supplier less than 20%
The margin of purchase preference (ITB-clause 4.1.4)	20%
Is the requirement divisible for preference ITB-clause 4.1.5	Yes
Would the contract be split among more than one bidder ITB-clause 4.1.5	Yes
6.0 Obtaining the Tender Document and clarifications (ITB-clause 7.0)	
eProcurement Portal and helpdesk for Document availability and submission	https://eprocure.gov.in/eprocure/app or https://gem.gov.in 0120-4001 002; 0120-4001 005; 0120-6277 787 or support-eproc@nic.in
Cost of Tender Document (INR)	Free of Cost
Office/ Contact Person/ email for clarifications	Room No. 517, Central Purchase Unit, Mausam Bhawan, Lodi Road, New Delhi-110003 cpu.imd@imd.gov.in

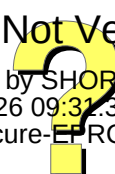
7.0 Pre-bid Conference (ITB-clause 8)	
Pre-bid Conference applicable or not	Yes
Name and phone number of contact person	Mr. Rangaraj A. G., Scientist 'E', Radar Division, O/o DGM, IMD, Lodi Road, New Delhi. Phone: (+91) 011-24344382 Email address: rangaraj.ag@imd.gov.in
Place, time, and date of the Pre-bid Conference	Mausam Bhawan, O/o DGM, IMD, Lodi Road, New Delhi / Video Conference. 07-08-2025, 11:00 hrs IST Link for VC will be updated in the IMD / CPP Website
Place, time, and date before which Written queries for the Pre-bid conference must be received	Mausam Bhawan, O/o DGM, IMD, Lodi Road, New Delhi. 06-08-2025, 18:00 hrs IST Link for VC will be updated in the IMD / CPP Website]
Place, time, and date before which registration of participants for the Pre-bid conference must be received	Mausam Bhawan, O/o DGM, IMD, Lodi Road, New Delhi. 06-08-2025, 18:00 hrs IST
8.0 Preparation and Submission and Opening of Bids (ITB-clause 9.0 and 10.0)	
Bids to be Addressed to	President of India, Through Head of Procurement, Procuring Entity
Instructions for Online bid Submission	https://etenders.gov.in/eprocure/app?page=HelpForContractors&service=page
Bid Opening Place	On e-procurement portal(s) mentioned above
Alternate Bids allowed or not ITB-clause 9.1.6	Only one bid meeting the conflict-of-interest criteria (as mentioned in this document) shall be considered as valid from a bidder.
9.0 Physical submission of Originals/ Self-attested copies of Originals of Scanned Documents uploaded (ITB-clause 10.3)	
Physical documents required/ permitted to be submitted	No
If Yes, List of Documents to be submitted physically	NA

Deadline for physical submission of originals/ self-attested copies of Originals of uploaded scanned documents			NA
Address of Physical Submission of Originals	NA		
10.0 Documents relating to Bid Security (ITB-clause 9.4) and Performance Security (ITB-clause 13.2.4)			
Bid security (EMD) in the form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker’s Cheque, Bid Security Declaration, Bank Guarantee, Insurance Surety Bond from any of the Commercial Banks drawn in favour of DDO, O/o DGM, IMD, New Delhi. In case of foreign bidders, it may be in the form of a bank guarantee (in equivalent Foreign Exchange amount) issued/ confirmed from any of the commercial banks in India in an acceptable form.			
Performance Security	Applicable @ 5% of Order value	Form of Security and To whom to be addressed	Performance Security shall be in the form of Bank Guarantee issued by a Commercial Bank doing government business in the prescribed form in favour of the purchaser
Bid Security (EMD)	INR 9.24 Crores	EMD to whom to be addressed	in favour of DDO, O/o DGM, IMD, New Delhi.
Categories of EMD Exemption Allowed	MSEs, Start-up	EMD Validity	45 days beyond final bid validity
11.0 Additional Clauses			
Clause	Description		
Integrity Pact to be Signed and Submitted along with bid ITB-clause 9.2.1	Yes	Independent External Monitor, Name and Contact Details	1. Sh. Ajay Kumar Lal, IRAS (Retd.), DDA, HIG, Block 3A/101 A, Motia Khan (Near Jhandewalan Temple), D.B. Gupta Road, New Delhi-110015 (Email: ajay_k_lal@yahoo.com,) 2. Sh. Pavan Kumar Jain, IDSE (Retd.), A-402, Shree Ganesh Apartments, Plot No. 12B, Sector-7

			Dwarka, New Delhi-110075 (Email: mespkj@gmail.com,)
Price Variation Clause ITB-clause 6.2.2	No		
Quantity Splitting/ Parallel Orders ITB-clause 13.1.2	Yes	If Yes, Ratio of Distribution among L-1 and others	In case of splitting in two and three, the ratio of 70:30; 50:30:20, respectively shall be used.

Signature Not Verified

Digitally signed by SHORAJ SINGH
Date: 2025.07.26 09:32:33 IST
Location: eProcure-EPROC





Ministry of Earth Sciences

**India Meteorological Department
Mausam Bhawan, Lodi Road
New Delhi-110003**

**GLOBAL TENDER ENQUIRY
(INTERNATIONAL COMPETITIVE BIDDING)**

Tender Document

Tender Reference Number : CPU/53/0x25/155x

Date: xx-07-2025

**For procurement of 20 C-Band and 25 X-Band
Polarimetric Doppler Weather Radar Systems**

(Handwritten signatures and initials)

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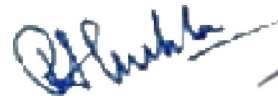
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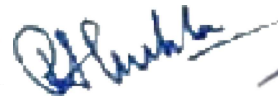


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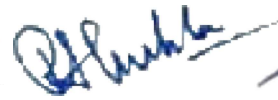


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Section I: Notice Inviting Tender (NIT)

1. Notice Inviting Tender (NIT)

The President of India, through the Head of Procurement of the Procuring Entity, in the Procuring Organisation (hereinafter referred to as 'the Authority', 'the Head of Procurement', 'the Procuring Entity' and 'the Procuring Organisation' respectively), invites bids for entering into a contract for the supply of GOODS (hereinafter referred to as 'the Goods'). This Tender Document reference number, CPU/53/0x25/155x (hereinafter referred to as 'the Tender Document'), gives further details.

2. The Tender Document

2.1 Bidders must read the complete 'Tender Document'.

This NIT is an integral part of the Tender Document and serves a limited purpose of invitation, and does not purport to contain all relevant details for submission of bids. 'Tender Information Summary' (TIS) appended to this notice gives a salient summary of the tender information. Any generic reference to NIT shall also imply a reference to TIS as well. Bidders must go through the Tender Document for details before submission of their Bids. However, Bidders must go through the complete Tender Document for details before submission of their Bids.

2.2 Availability of the Tender Document

The Tender Document shall be published on the Portal. It shall be available for download after the date and time of the start of availability till the deadline for availability as mentioned in TIS. Unless otherwise stipulated in TIS, the downloaded Tender Document is free of cost. If the Procuring Entity happens to be closed on the deadline for submitting the bids as specified above, this deadline shall *not* be extended. Any query/ clarification regarding downloading Tender Documents and uploading Bids on the e-Procurement portal may be addressed to the Help Desk (contact details given in TIS).

2.3 Clarifications

A Bidder requiring any clarification regarding the Tender Document may ask questions in writing/ electronically from Office/ Contact Person as mentioned in TIS, provided the questions are raised before the clarification end date mentioned in TIS (or if not mentioned, before 7 days of the deadline for the bid submission). This deadline shall not be extended in case of any intervening holidays.

3. Eligibility Criteria for Participation in this Tender

Subject to provisions in the Tender Document, participation in this Tender Process is open to all bidders who fulfil the 'Eligibility' and 'Qualification criteria. Bidder should meet the following eligibility criteria as of the date of his bid submission and should continue to meet

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these till the award of the contract. Bidder shall be required to declare fulfilment of Eligibility Criteria in Form 1.2 (Eligibility Declarations). The Bidder, unless otherwise stipulated in TIS/ AITB:

1) must:

- (a) be a natural person, private entity, or public entity (State-owned enterprise or institution).
- (b) unless permitted explicitly in TIS/ AITB, not be (or proposes to be, a Joint Venture/ Consortium (an association of several persons, firms, or companies - hereinafter referred to as JV/C).
- (c) be a manufacturer of the product offered or be dealer authorised by the Principal/ OEM.

2) must:

- (a) not be insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of these reasons.
- (b) (including their affiliates or subsidiaries or Contractors/ subcontractors for any part of the contract)
 - (i) Not stand declared ineligible/ blacklisted/ banned/ debarred by the Procuring Organisation or its Ministry/ Department from participation in its Tender Processes; and/ or
 - (ii) Not be convicted (within three years preceding the last date of bid submission) or stand declared ineligible/ suspended/ blacklisted/ banned/ debarred by appropriate agencies of Government of India from participation in Tender Processes of all of its entities, for:
 - offences involving moral turpitude in business dealings under the Prevention of Corruption Act, 1988 or any other law; and/or
 - offences under the Indian Penal Code or any other law for causing any loss of life/ limbs/ property or endangering Public Health during the execution of a public procurement contract and/ or
 - suspected to be or of doubtful loyalty to the Country or a National Security risk as determined by appropriate agencies of the Government of India.
 - (iii) Not have changed its name or created a new business entity as covered by the definition of "Allied Firm", consequent to having been declared ineligible/ suspended/ blacklisted/ banned/ debarred as above;
 - (iv) Not have an association (as a bidder/ partner/ director/ employee in any capacity)

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- of retired Manager (of Gazetted Rank) or a retired Gazetted Officer of the Central or State Government or its Public Sector Undertakings if such a retired person has not completed the cooling-off period of one year after his retirement. However, this shall not apply if such managers/ officers have obtained a waiver of the cooling-off period from their erstwhile organisation.
 - of the near relations of executives of Procuring Entity involved in this Tender Process
- (c) Not have a conflict of interest, which substantially affects fair competition. The prices quoted should be competitive and without adopting any unfair/ unethical/ anti-competitive means. No attempt should be made to induce any other bidder to submit or not to submit an offer for restricting competition
- 3) must fulfil any other additional eligibility condition, if any, as may be prescribed, in TIS or elsewhere in Tender Document.
 - 4) must provide such evidence of their continued eligibility to the Procuring Entity if so requested.
 - 5) of Class-II Local Suppliers and Non-Local Suppliers (as defined in Make-in-India policy) shall be eligible subject to certain conditions as detailed in the ITB-clause 4.1.
 - 6) from specified countries having land borders with India (but not in development partnership with India) shall be eligible subject to certain conditions as detailed in the ITB-clause 3.3.

4. Purchase Preference Policies of the Government

As detailed in the Tender Document, the Procuring Entity reserves its right to grant preferences to eligible Bidders under various Government Policies/ directives (policies relating to Make in India; MSME; Start-ups etc.).

5. Pre-bid Conference:

If so indicated in TIS, Bidders are requested to attend a Pre-bid conference for clarification on the Tenders' technical specifications and commercial conditions, on the time, date, and place mentioned therein. Participation in such a Pre-bid Conference is not mandatory. If a bidder does not participate or submit any query, then no subsequent representations from them regarding the Technical/ commercial specifications/ conditions shall be entertained.

6. Submission of Bids:

- 1) Bids must be uploaded till the deadline for submission mentioned in TIS. If the office happens to be closed on the deadline to submit the bids as specified above, this deadline shall *not* be extended. Conditional Bids or more than one bid or alternative bids shall be unacceptable.

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- 2) No manual Bids shall be made available or accepted for submission. Bidder must comply with the conditions of the eProcurement portal, including registration, compatible Digital Signature Certificate (DSC) etc. In the case of downloaded documents, Bidder must not make any changes to the contents of the documents while uploading, except for filling in the required information.
- 3) As per current Government orders, in lieu of bid security, bidders must furnish Bid Securing Declaration (BSD) as 'Form 7: Documents Relating To Bid Security' in their bid as per format given therein. The BSD shall be drawn in favour of the authority stipulated in TIS. A self-attested scan of the original Form 7 should be uploaded along with bids. Bids not complying with these provisions shall be rejected.
- 4) **Integrity Pact:** If so indicated, in the TIS/ AITB, all Bidders shall have to sign the Integrity Pact with the Procuring Entity as per 'Form 8: Integrity Pact'. Bids without a signed Integrity Pact shall be rejected.
- 5) Upon submission of bids and / or bids opening, any request for any type of error / ambiguity will not be accepted.

7. Bid Opening

Bids received shall be opened online at the specified date and time given in TIS. If the office is closed on the specified date of opening of the bids, the opening shall be done on the next working day at the same time.

8. Price bid evaluation/award

In case of two or more parties quote the similar rates as L-1, then split of work can be considered for proportionate quantity supply on parallel basis.

9. Disclaimers and Rights of Procuring Entity

The issue of the Tender Document does not imply that the Procuring Entity is bound to select bid(s), and it reserves the right without assigning any reason to

- (a) reject any or all of the Bids, or
- (b) cancel the tender process; or
- (c) abandon the procurement of the Goods; or
- (d) issue another tender for identical or similar Goods

Note: Please refer to appended TIS and the complete Tender Document for further details.

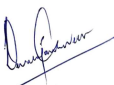


Digitally Signed by

Tender Inviting Authority

[Insert Name, Designation, and contact details of Tender Inviting Authority]

Appendix: Tender Information Summary (TIS)

2 By   Soma Sen Ray      

Appendix to NIT: Tender Information Summary

Document No. CPU/53/0x25/155x; Tender Title: PROCUREMENT OF 20 C-BAND AND 25 X-BAND POLARIMETRIC DOPPLER WEATHER RADAR SYSTEMS

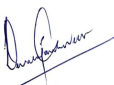
(Ref ITB-clause 1.4)

Tender Information Summary (TIS)			
1.0 Basic Tender Details			
Tender Title	Procurement of Twenty (20) number of C-Band and Twenty Five (25) number of X-Band Polarimetric Doppler Weather Radar Systems		
Tender Reference Number	Tender Enquiry No. CPU/53/0x25/155x	Tender ID	As per GeM Portal/ CPP Portal
Tender Type	Open Tender – Global Tender Enquiry	Form of Contract	Tender cum Auction
Tender Category	Goods	No. of Covers	Two Covers
Bidding System	Two bid system	e-Reverse Auction to be held after Financial bid opening (See AITB also in case of Yes)	Yes
the Procuring Organisation:	India Meteorological Department	the Procuring Entity:	Central Purchase Unit
Authority on whose behalf Tender is invited	President of India	Through	Director General of Meteorology
Tender Inviting Authority (TIA)	Director General of Meteorology	Address	India Meteorological Department, Mausam Bhawan,

			Lodi Road, New Delhi-110003
Appointing Authority for Arbitration	Secretary, Ministry of Earth Sciences.		
2.0 Requirement Details (ITB-clause 5.0)			
Evaluation Basis	Schedule-wise/ Consignee wise	Part quotation allowed or not	Part quotation not allowed
Inspection Type	Pre-dispatch inspection at Factory	Inspection Agency	India Meteorological Department
Schedule	Mentioned in Section VI		
Item Details:	Mentioned in section VII of this document	Qty and Units	20 C-band Radars and 25 X-band Radars
Consignee/ State:	45 sites over India		
Terms of Delivery	DAP	Completion date of Delivery:	1. All the 20 C band and 25 X band along with associated systems including AWS and disdrometer to be delivered, installed, accepted and commissioned within 18 months from the date of issue of the contract agreement. 2. Detailed Design Review (DDR) will be held after one month from the date of issue of supply











			order where-in the design of hardware & software 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 TENDER DOCUMENT. 3. All the items are required to be delivered directly at respective sites. Dispatch of stores will be on DAP basis. The firm will be responsible to deliver the items at each site.
3.0 Critical Dates (ITB-clause 7.0; 8.0; 9.0, 10.0 and 11.0)			
Published Date	xx-06-2025	Bid Validity (Days from the date of Bid Opening) – ITB-clause 9.3	180 days
Document Download Start Date & Time	xx-06-2025, 11:00 hrs IST	Document Download End Date & Time	xx-06-2025, 11:00 hrs IST
Clarification Start Date & Time	xx-06-2025, 11:00 hrs IST	Clarification End Date & Time	xx-06-2025, 11:00 hrs IST

Bid Submission Start Date & Time	xx-06-2025, 11:00 hrs IST	Bid Submission Closing Date & Time	xx-06-2025, 11:00 hrs IST
Bid Opening (Techno-commercial bid) Date & Time	xx-06-2025, 11:00 hrs IST	Bid Opening (Financial bid) Date & Time	[To be intimated later]
4.0 Eligibility to Participate (NIT-clause 3 and ITB-clause 3.2)			
Is this item reserved for exclusive Procurement from MSEs		No	
Nature of Bidders eligible – OEMs/ Dealers authorised by OEMs		No Restriction	
Entities from countries not eligible to participate on reciprocal basis ITB-clause 4.1.2 (Make in India Policy)		-	
Minimum local content for eligibility to participate ITB-clause 4.1.4 (Make in India Policy)		Class-I Local Suppliers: 50% Class -II Local Supplier: more than 20% but less than 50% Non-Local Supplier less than 20%	
Classes of Local Suppliers eligible to participate ITB-clause 4.1.4 (Make in India Policy)		All classes of Contractors (Class-I, Class-II and Non-local) eligible – Global Tender Enquiry	
Mandatory Joint venture with Indian Company ITB-clause 4.1.7 (Make in India Policy)		Yes	
5.0 Thresholds for Eligibility to Participate and Preference under Make in India Policy (ITB-clause 4.1)			

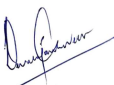
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Classification of Local Suppliers based on Minimum local content ITB-clause 4.1.1		Class-I Local Suppliers: 50% Class -II Local Supplier: more than 20% but less than 50% Non-Local Supplier less than 20%
The margin of purchase preference (ITB-clause 4.1.4)		20%
Is the requirement divisible for preference ITB-clause 4.1.5		Yes
Would the contract be split among more than one bidder ITB-clause 4.1.5		Yes
6.0 Obtaining the Tender Document and clarifications (ITB-clause 7.0)		
eProcurement Portal and helpdesk for Document availability and submission	https://eprocure.gov.in/eprocure/app or https://gem.gov.in	0120-4001 002; 0120-4001 005; 0120-6277 787 or support-eproc@nic.in
Cost of Tender Document (INR)	Free of Cost	
Office/ Contact Person/ email for clarifications	Room No. 517, Central Purchase Unit, Mausam Bhawan, Lodi Road, New Delhi-110003 cpu.imd@imd.gov.in	
7.0 Pre-bid Conference (ITB-clause 8)		
Pre-bid Conference applicable or not	Yes	
Name and phone number of contact person	Mr. Rangaraj A. G., Scientist 'E', Radar Division, O/o DGM, IMD, Lodi Road, New Delhi. Phone: (+91) 011-24344382 Email address: rangaraj.ag@imd.gov.in	
Place, time, and date of the Pre-bid Conference	Mausam Bhawan, O/o DGM, IMD, Lodi Road, New Delhi / Video Conference. xx-06-2025, 11:00 hrs IST	

	Link for VC will be updated in the IMD / CPP Website
Place, time, and date before which Written queries for the Pre-bid conference must be received	Mausam Bhawan, O/o DGM, IMD, Lodi Road, New Delhi. xx-06-2025, 11:00 hrs IST Link for VC will be updated in the IMD / CPP Website]
Place, time, and date before which registration of participants for the Pre-bid conference must be received	Mausam Bhawan, O/o DGM, IMD, Lodi Road, New Delhi. xx-06-2025, 11:00 hrs IST
8.0 Preparation and Submission and Opening of Bids (ITB-clause 9.0 and 10.0)	
Bids to be Addressed to	President of India, Through Head of Procurement, Procuring Entity
Instructions for Online bid Submission	https://etenders.gov.in/eprocure/app?page=HelpForContractors&service=page
Bid Opening Place	On e-procurement portal(s) mentioned above
Alternate Bids allowed or not ITB-clause 9.1.6	Only one bid meeting the conflict-of-interest criteria (as mentioned in this document) shall be considered as valid from a bidder.
9.0 Physical submission of Originals/ Self-attested copies of Originals of Scanned Documents uploaded (ITB-clause 10.3)	
Physical documents required/ permitted to be submitted	No
If Yes, List of Documents to be submitted physically	NA
Deadline for physical submission of originals/ self-attested copies of Originals of uploaded scanned documents	NA
Address of Physical Submission of Originals	NA
10.0 Documents relating to Bid Security (ITB-clause 9.4) and Performance Security (ITB-clause 13.2.4)	









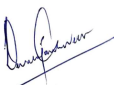


Bid security (EMD) in the form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque, Bid Security Declaration, Bank Guarantee, Insurance Surety Bond from any of the Commercial Banks drawn in favour of DDO, O/o DGM, IMD, New Delhi. In case of foreign bidders, it may be in the form of a bank guarantee (in equivalent Foreign Exchange amount) issued/ confirmed from any of the commercial banks in India in an acceptable form.			
Performance Security	Applicable @ 5% of Order value	Form of Security and To whom to be addressed	Performance Security shall be in the form of Bank Guarantee issued by a Commercial Bank doing government business in the prescribed form in favour of the purchaser
Bid Security (EMD)	INR 9.24 Crores	EMD to whom to be addressed	in favour of DDO, O/o DGM, IMD, New Delhi.
Categories of EMD Exemption Allowed	MSEs, Start-up	EMD Validity	45 days beyond final bid validity
11.0 Additional Clauses			
Clause	Description		
Integrity Pact to be Signed and Submitted along with bid ITB-clause 9.2.1	Yes	Independent External Monitor, Name and Contact Details	1. Sh. Ajay Kumar Lal, IRAS (Retd.), DDA, HIG, Block 3A/101 A, Motia Khan (Near Jhandewalan Temple), D.B. Gupta Road, New Delhi-110015 (Email: ajay_k_lal@yahoo.com,) 2. Sh. Pavan Kumar Jain, IDSE (Retd.), A-402, Shree Ganesh Apartments, Plot No. 12B, Sector-7 Dwarka, New Delhi-110075 (Email: mespkj@gmail.com,)

Price Variation Clause ITB-clause 6.2.2	No		
Quantity Splitting/ Parallel Orders ITB-clause 13.1.2	Yes	If Yes, Ratio of Distribution among L-1 and others	In case of splitting in two and three, the ratio of 70:30; 50:30:20, respectively shall be used.












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 By   Soma Sen Ray     

Section II: Instructions to Bidders (ITB)

1. The Tender Document

1.1 Basic Tender Details

The 'Tender Document' (hereinafter referred to as the 'the Tender Document') details the terms and conditions for entering into a contract for the supply of the Goods as detailed in Section VI: "Schedule of Requirements" (hereinafter referred to as 'the Goods'). Bidders must go through the Tender Document for further details. 'Tender Information Summary' (TIS) is appended to Section I: Notice Inviting Tender (NIT) for ready reference. The 'Good's may include incidental Services/ Works if so indicated. In this Tender Document, any generic reference to 'Goods' shall be deemed to include such incidental Services and Works.

1.2 Interpretations, Definitions, Abbreviations and Document Conventions

Section IV: General Conditions of Contract (GCC), details Tenets of interpretation (GCC-clause 1.1), Definitions (GCC-clause 1.2), Document conventions (GCC-clause 1.3) and Abbreviations (GCC-clause 1.4), which shall also apply to the rest of the Tender Document.

1.3 Overview of Contents

- 1) Unless otherwise stipulated in TIS/ AITB, the Sections, Forms and Formats comprising this Tender Document are described in ITB-clauses 1.4, 1.5 and 1.6 below. A BOQ file separately available on the e-Procurement Portal is also part of this Tender Document. Any generic reference to Tender Document shall also imply a reference to any/ all the sections, Forms, Formats and the BOQ file or other files that comprise this Tender Document.
- 2) Bidder must submit the bid in the Forms/ Formats mentioned in ITB-clauses 1.5 and 1.6 below. The sections mentioned in ITB-clause 1.4 below need not be signed or returned by the bidders; however, Bidder must declare in his bid Form (Form 1) that he has read, understood, complied, and stands bound by all requirements of these sections:

1.4 Sections of the Tender Document (need not be signed or uploaded)

1.4.1 Sections of the Tender Document

Unless otherwise stipulated in TIS/ AITB, the Tender Document contains the following sections, which are described in subsequent sub-clauses:

- 1) Section I: Notice Inviting Tender (NIT) and its Appendix: Tender Information Summary (TIS)
- 2) Section II: Instructions to Bidders (ITB)

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- 3) Section III: Appendix to Instructions to Bidders (AITB)
- 4) Section IV: General Conditions of Contract (GCC)
- 5) Section V: Special Conditions of Contract (SCC)
- 6) Section VI: Schedule of Requirements
- 7) Section VII: Technical Specifications and Quality Assurance
- 8) Section VIII: Qualification Criteria

1.4.2 Section I: Notice Inviting Tender (NIT) and its Appendix: Tender Information Summary (TIS)

Section I – Notice Inviting Tender (NIT) and its Appendix – Tender Information Summary (TIS) provides a synopsis of information relevant for a Bidder to decide on participating in the Tender. Any generic reference to NIT shall also imply a reference to TIS as well. Bidders must fill up 'Form 5: Terms and Conditions - Compliance' regarding any deviations from this Schedule.

1.4.3 Section II: Instructions to Bidders (ITB) and Section III: Appendix to Instructions to Bidders (AITB)

Section II: "Instructions to Bidders" - ITB along with Section III: "Appendix to Instructions to Bidders – AITB" provides the relevant information as well as instructions to assist the prospective Bidders in preparation and submission of Bids. It also includes the mode and procedure adopted for receipt/ opening, scrutiny/ evaluation of Bids, and contract award. In case of a conflict, provisions of AITB shall prevail over those in the ITB. Any generic reference to ITB shall also imply a reference to AITB as well. Bidders must fill up 'Form 5: Terms and Conditions - Compliance' regarding any deviations from this Schedule.

1.4.4 Section IV: General Conditions of Contract (GCC) and Section V: Special Conditions of Contract (SCC)

Section IV – General Conditions of Contract (GCC) and Section V – Special Conditions of Contract (SCC) describe the conditions that shall govern the resulting contract. In case of a conflict, provisions of SCC shall prevail over those in the GCC. Any generic reference to GCC shall also imply a reference to SCC as well. In case of any conflict, provisions of GCC/ SCC shall prevail over those in ITB/ AITB. Bidders must fill up 'Form 5: Terms and Conditions - Compliance' regarding any deviations from terms and conditions of this and other Schedules.

1.4.5 Section VI: Schedule of Requirements

Section VI – Schedule of Requirements describes the Goods required; HSN codes; Quantities and Units; Delivery Requirements, Destination and State; transportation; terms of delivery (D.A.P. etc.); scope of supply (concomitant accessories; spare parts and incidental Works/ Services). The requirements may consist of more than one schedule. Each schedule may



contain more than one item of Goods. Bidders must fill up 'Form 2: 'Schedule of Requirements - Compliance' regarding this Schedule.

1.4.6 Section VII – Technical Specifications and Quality Assurance

Section VII – Technical Specifications and Quality Assurance lays down the technical and quality assurance (including any energy-saving requirements, e.g., BEE star classification and Warranty Obligations) of the Goods required. It would also stipulate, if required, any compliance required by Central and State Pollution Control Boards, including transportation and handling of hazardous materials/ packaging. Bidders must fill up 'Form 3: 'Confirmation/ Deviation from Technical Specifications And Quality Assurance' regarding this Schedule. Bidder should provide the required details, information, confirmations, etc., accordingly, failing which its bid shall be liable to be rejected as nonresponsive.

1.4.7 Section VIII: Qualification Criteria:

Section VIII: Qualification Criteria lay down the Qualifying Criteria for a bid/ Bidder to be considered a responsive bid/ bidder for further evaluation. Bids/ bidders not meeting these Qualification criteria shall be rejected as nonresponsive. It may indicate the extent of dispensation allowed for Start-ups under ITB 3.8.2-2) and MII-JVs under ITB 3.6.8-2. Bidders must fill up 'Form 4: Confirmation/ Deviation from Qualification Criteria' and 'Form 4.1: Performance Statement' regarding this Schedule. Bidders shall attach statements and documents to confirm conformity to Qualification Criteria in this appendix.

1.5 Forms (To be filled, digitally signed, and uploaded by Bidders)

Please refer to clause 1.4 above to relate the following forms to the corresponding Sections.

- 1) Form 1: bid Form (To serve as a covering letter to both the Techno-commercial and Financial Bids)
 - (a) Form 1.1: Bidder Information
 - (b) Form 1.2: Eligibility Declarations
 - (c) Form 1.3: OEM's Authorization
 - (d) Form 1.4: Declaration by Agents/ Associates of Foreign Principals/ OEMs
- 2) Form 2: Schedule of Requirements - Compliance
- 3) Form 3: Technical Specifications and Quality Assurance - Compliance
- 4) Form 4: Qualification Criteria - Compliance
 - (a) Form 4.1: Performance Statement
- 5) Form 5: Terms and Conditions - Compliance
- 6) Form 6: Checklist for the Bidders

- 7) Form 7: Documents Relating to Bid Security
- 8) Form 8: Integrity Pact
- 9) Financial bid – BOQ Excel Sheet (To be Downloaded from the Portal).

1.6 Other Formats

- 1) Format 1: Contract Form (Not to be filled by Bidders)
 - (a) Format1.1: Bank Guarantee Format for Performance Security
 - (b) Format1.1.1: BANK GUARANTEE FORMAT FOR ADVANCE PAYMENT
 - (c) Format 1.2: No Claim Certificate
 - (d) Format 1.3: Certification by Prospective Arbitrators
 - (e) Format 1.4: Model Bank Guarantee format for furnishing EMD
- 2) Format 2: Authorization for Attending Pre-bid Conference. (To be filled up, if required, by Bidder)

2. Procuring Entity - Rights and Disclaimers

2.1 The Procuring Entity

Bids are to be addressed to the President of India through the Head of Procurement, Procuring Entity in the Procuring Organisation (headed by Head of the Procuring Organisation). The Tender Inviting Authority is the designated officer for uploading and clarifying this Tender Document. The contract may designate, as required, Inspection Agency/ Officer and interim/ ultimate Consignee(s) and Paying authority who shall discharge designated function during contract execution.

2.2 Right to Intellectual Property and confidentiality:

- 1) The Tender Document and associated correspondence are subject to copyright laws and shall always remain the property of the Procuring Entity and must not be shared with third parties or reproduced, whether in whole or part, without the Procuring Entity's prior written consent.
- 2) However, Bidders may share these to prepare and submit its bid with its employees, subcontractor(s), or holding Company. Bidders shall obtain from them an undertaking of confidentiality similar to that imposed on Bidder under this clause.
- 3) This condition shall also apply to bidders who do not submit a bid after downloading it or who are not awarded a contract in the process.
- 4) The obligation of the Bidders under sub-clauses above, however, shall not apply to information that:
 - (a) now or hereafter is or enters the public domain through no fault of Bidder;



- (b) is legally possessed by Bidder at the relevant time and was not previously obtained, directly or indirectly, from the Procuring Entity; or
 - (c) otherwise lawfully becomes available to Bidder from a third party that has no obligation of confidentiality.
- 5) The provisions of this clause shall survive completion or termination for whatever reason of the Tender Process or the contract.

2.3 Right to Reject any or all Bids

The Procuring Entity reserves its right to accept or reject any or all Bids, abandon/ cancel the Tender process, including right to not to reply bidder any unacceptable communication / representation in any form and issue another tender for the same or similar Goods at any time before the award of the contract. It would have no liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for such action(s).

2.4 Disclaimers

2.4.1 Regarding Purpose of the Tender Document

The Tender Document is neither an agreement nor an offer to prospective Bidder(s) or any other party hereunder. The purpose of the Tender Document is to provide the Bidder(s) with information to assist them in participation in this Tender Process.

2.4.2 Regarding Documents/ guidelines

The Tender Document, ensuing communications, and Contracts shall determine the legal and commercial relationship between the bidders/ contractors and the Procuring Entity. No other Government or Procuring Entity's document/ guidelines/ Manuals including its Procurement Manual (for internal and official use of its officers), notwithstanding any mention thereof in the Tender Document, shall have any locus-standii in such a relationship. Therefore, such documents/ guidelines/ Manuals shall not be admissible in any legal or dispute resolution or grievance redressal proceedings.

2.4.3 Regarding Information Provided

Information contained in the Tender Document or subsequently provided to the Bidder(s) is on the terms and conditions set out in the Tender Document or subject to which that was provided. Similar terms apply to information provided verbally or in documentary or any other form, directly or indirectly, by the Procuring Entity or any of its employees or associated agencies.

2.4.4 Regarding Tender Document:

- 1) The Tender Document does not purport to contain all the information Bidder(s) may require. It may not address the needs of all Bidders. They should conduct due

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diligence, investigation, and analysis, check the information's accuracy, reliability, and completeness, and obtain independent advice from appropriate sources. Information provided in the Tender Document to the Bidder(s) is on a wide range of matters, some of which may depend upon interpreting the law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Procuring Entity, its employees and other associated agencies accept no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

- 2) The Procuring Entity, its employees and other associated agencies make no representation or warranty for the accuracy, adequacy, correctness, completeness or reliability, assessment, assumption, statement, or information in the Tender Document. They have no legal liability, whether resulting from negligence or otherwise, for any loss, damages, cost, or expense that may arise from/ incurred/ suffered howsoever caused to any person, including any Bidder, on such account.

3. Bidders - Eligibility and Preferential Policies

3.1 Bidders

Subject to provisions in the following clauses in this section and provisions in Tender Document, this invitation for Bids is open to all bidders who fulfil the 'Eligibility Criteria' and 'Qualification Criteria' stipulated in the Tender Document. In the case of the Second Stage (of two Stage Bidding or PQB) or Special Limited Tenders, this invitation is open only to such bidders who have been previously shortlisted or specifically invited.

3.2 Eligibility Criteria for Participation in this Tender

Subject to provisions in this Tender Document, participation in this Tender Process is open to all bidders who fulfil the 'Eligibility' and 'Qualification criteria. Bidder should meet (as on the date of his bid submission and should continue to meet till the award of the contract) the 'Eligibility Criteria' detailed in NIT-clause 3, which shall be considered to be part of this clause of ITB (even though it is not being reproduced here for the sake of brevity). Bidder shall submit a declaration about the 'Eligibility Criteria' compliance in Form 1.2 – Eligibility Declarations.

3.3 Eligibility of bidders from specified countries

Orders issued by the Government of India restricting procurement from bidders from certain countries that share a land border with India shall apply to this procurement.

- 1) Any bidder (as defined in GCC-clause 1.2) from a country that shares a land border with India¹, excluding countries as listed on the website of the Ministry of External

¹ <https://mea.gov.in/india-and-neighbours.htm>

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Affairs², to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects (hereinafter called 'Restricted Countries') shall be eligible to bid in this tender only if Bidder is registered³ with the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). Bidders shall enclose the certificate in this regard in Form 1 - bid Form.

- 2) In Bids for Turnkey contracts, including Works contracts, the successful bidder shall not be allowed to sub-contract works to any contractor from such Restricted Countries unless such contractor is similarly registered. In such cases, the bidders shall enclose the certificate in Form 1: Bid Form.
- 3) If Bidder has proposed to sub-contract Services or incidental Goods directly/ indirectly from the vendors from such countries, such vendor shall be required to be registered with the Competent Authority. However, if Bidder procures raw material, components, and sub-assemblies from such countries' vendors, such vendors shall not require registration.
- 4) "Bidder from such Restricted Countries" means: -
 - a) An entity incorporated, established, or registered in such a country; or
 - b) A subsidiary of an entity incorporated, established, or registered in such a country; or
 - c) An entity substantially controlled through entities incorporated, established, or registered in such a country; or
 - d) An entity whose beneficial owner is situated in such a country; or
 - e) An Indian (or other) agent of such an entity; or
 - f) A natural person who is a citizen of such a country; or
 - g) A consortium/ joint venture where any member falls under any of the above
- 5) The beneficial owner shall mean:
 - (a) In a company or Limited Liability Partnership, the beneficial owner is the natural person(s). Whether acting alone or together or through one or more juridical persons, controlling ownership interest or exercises control through other means.

Explanation-

 - (i) "Controlling ownership interest" means ownership of or entitlement to more than twenty-five percent of the company's shares or capital, or profits.

² <http://meadashboard.gov.in/indicators/92>

³ <https://dipp.gov.in/sites/default/files/Revised-Application-Format-for-Registration-of-Bidders-15Oct2020.pdf>

- (ii) "Control" shall include the right to appoint a majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholder agreements or voting agreements;
- (b) In the case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together or through one or more juridical persons, has ownership of entitlement to more than fifteen percent of capital or profits.
- (c) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
- (d) Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official.
- (e) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

3.4 Conflict of Interest.

Any bidder having a conflict of interest, which substantially affects fair competition, shall not be eligible to bid in this tender. Bids found to have a conflict of interest shall be rejected as nonresponsive. Bidder shall be required to declare the absence of such conflict of interest in Form 1.2 - Eligibility Declarations. A bidder in this Tender Process shall be considered to have a conflict of interest if the bidder:

- 1) directly or indirectly controls, is controlled by or is under common control with another Bidder; or
- 2) receives or have received any direct or indirect subsidy/ financial stake from another bidder; or
- 3) has the same legal representative/ agent as another bidder for purposes of this bid. A Principal can authorize only one agent, and an agent also should not represent or quote on behalf of more than one Principal. However, this shall not debar more than one Authorised distributor from quoting equipment manufactured by an Original Equipment Manufacturer (OEM), in procurements under Proprietary Article Certificate; or
- 4) has a relationship with another bidder, directly or through common third parties, that puts it in a position to have access to information about or influence the bid of another Bidder or influence the decisions of the Procuring Entity regarding this Tender process; or

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- 5) participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of a non-bidder firm as a sub-contractor in more than one bid; or
- 6) would be providing goods, works, or non-consulting services resulting from or directly related to consulting services that it provided (or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm), for the procurement planning (inter-alia preparation of feasibility/ cost estimates/ Detailed Project Report (DPR), design/ technical specifications, terms of reference (ToR)/ Activity Schedule/ schedule of requirements or the Tender Document etc) of this Tender process; or
- 7) has a close business or family relationship with a staff of the Procuring Organisation who: (i) are directly or indirectly involved in the preparation of the Tender document or specifications of the Tender Process, and/or the evaluation of bids; or (ii) would be involved in the implementation or supervision of resulting Contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Procuring Entity throughout the Tender process and execution of the Contract.

3.5 Regulation of Indian Agents/ Associates of Foreign Principals

Wherever the foreign principal desires to involve in this tender process, an Indian Agent/ associate, their dealings shall be regulated. Foreign Principals and their Agents/ Associates must provide required declarations in Form 1.4 – Declarations by Agents/ Associates of Foreign Principals:

- 1) The name and address of the foreign principals, if any, indicating their nationality as well as their status, i.e., whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal authorizing them specifically to make an offer in India in response to tender either directly or through the agents/ representatives.
- 2) Such Agents/ Associates shall provide self-attested documentary evidence about their identity, business details to establish that they are a bonafide business and conform to regulations.
- 3) The Bidder/ Foreign Principal must commit to submitting after the Financial bid opening, due to price-sensitive information, the Agreement between them, including the amount of commission/ remuneration included in the price (s).
- 4) Confirmation on behalf of the foreign principals that the commission/ remuneration, if any, reserved for Indian Agents/ Associates in the quoted price(s), shall be paid by the Procuring Entity in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Goods and Spares.

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- 5) Failure to furnish correct and detailed information shall render Foreign Principal's bid liable to be rejected as nonresponsive in addition to other punitive actions against the Foreign Principal and their Indian Agents/ Associates for violation of Code of Integrity as per the Tender Document.

4. Purchase Preference Policies of the Government

Unless otherwise stipulated in TIS/ AITB, the Procuring Entity reserves its right to grant preferences to the following categories of eligible Bidders under various Government Policies/ Directives:

- 1) Class I Local Suppliers under Public Procurement (Preference to Make in India) Order 2017" (MII) of Department for Promotion of Industry and Internal Trade, (DPIIT - Public Procurement Section) as revised from time to time.
- 2) Bidders from Micro and/ or Small Enterprises (MSEs) under Public Procurement Policy for the Micro and Small Enterprises (MSEs) Order, 2012 as amended from time to time.
- 3) Start-ups Bidders under Ministry of Finance, Department of Expenditure, Public Procurement Division OM No F.20\212014-PPD dated 25.07.2016 and subsequent clarifications; and/ or
- 4) Any other category of Bidders, as per any Government Policies, announced from time to time, if so provided in the TIS/ ITB/ AITB

4.1 Make in India Order

Orders issued by the Government of India regarding eligibility to participate and for purchase preference to "Local Suppliers" to encourage 'Make in India' and promote manufacturing and production of goods and services in India shall apply to this procurement, as detailed below.

4.1.1 Categories of Local Suppliers

Bidders/Contractors are divided into three categories based on Local Content. Local content in the context of this policy is the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.:

- 1) 'Class-I local Supplier' with local content equal to or more than that prescribed in TIS or 50% if not prescribed.
- 2) 'Class-II local Supplier' with local content equal to or more than that prescribed in TIS or 20% if not prescribed, but less than that applicable for Class-I local Supplier.
- 3) 'Non - Local Supplier' with local content less than that applicable for Class-II local Supplier, in sub-clause above.

4.1.2 Eligibility Restrictions based on Reciprocity.

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- 1) Minimum local content for eligibility to participate:** Only bidders meeting the minimum prescribed local content for the product shall be eligible to participate subject to the following conditions. This threshold shall be declared in TIS and/ or Section VI: Schedule of Requirements
- 2) Classes of Local Suppliers eligible to Participate:** Based on the Make in India Policy, classes of local/ non-local Suppliers eligible to participate in the tender shall be declared in TIS/ AITB/ Schedule of Requirements. If not so declared, only Class-I and Class-II local Suppliers shall be eligible to participate and not non-local Suppliers.

- 1) Following thresholds shall be declared in the Tender Document.
 - (a) **Minimum local content for Contractor classification:** local content percentage prescribed to qualify as Class-I or Class-II local Suppliers for various products
 - (b) **Minimum local content for eligibility to participate:** Minimum local content percentage prescribed for eligibility for a bid to be considered.
 - (c) **The margin of purchase preference:** The bid price quoted by Class-I Local Supplier should be within this percentage from the L-1 price quoted by Non-local or Class-II bidders for being eligible for purchase preference.
- 2) If not so declared, the default threshold shall be as follows:
 - (a) Local content for eligibility for Class-I; Class-II local Suppliers and Non-local Suppliers shall be 50% and above; 20% and above but less than 50%; and less than 20%, respectively.
 - (b) Minimum local content for eligibility to participate shall be 50%,
 - (c) The margin of purchase preference shall be 20%

- 1) For goods and works where the Goods are divisible by nature:
 - (a) Among all qualified bids, the lowest bid shall be termed as L-1. If L-1 is 'Class-I local Supplier', the contract for full quantity shall be awarded to L-1.
 - (b) If the L-1 bid is not a 'Class-I local Supplier', 50% of the order quantity shall be awarded to L-1. After that, the lowest bidder among the 'Class-I local Supplier'

2 By [Signature] Digitl Soma Sen Ray [Signature] [Signature] [Signature] [Signature] [Signature]

whose quoted price falls within the margin of purchase preference shall be invited to match the L-1 price for the remaining 50% quantity, and a contract for that quantity shall be awarded him, subject to matching the L-1 price. In case such lowest eligible 'Class-I local Supplier' fails to match the L-1 price or accepts less than the offered quantity, the next higher 'Class-I local Supplier' within the margin of purchase preference shall be invited to match the L-1 price for the remaining quantity and so on, and the contract shall be awarded accordingly. If some quantity is still left uncovered on Class-I local Suppliers, such balance quantity shall also be ordered on the L-1 bidder.

- 2) For goods and works where the Goods are not divisible, and in the procurement of services where the bid is evaluated on price alone:
 - (a) Among all qualified bids, the lowest bid shall be termed as L-1. If L-1 is 'Class-I local Supplier', the contract shall be awarded to L-1.
 - (b) If L-1 is not 'Class-I local Supplier', the lowest bidder among the 'Class-I local Supplier' shall be invited to match the L-1 price subject to Class-I local Supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local Supplier' subject to matching the L-1 price.
 - (c) If such lowest eligible 'Class-I local Supplier' fails to match the L-1 price, the 'Class-I local Supplier' with the next higher and so on, bid within the margin of purchase preference shall be invited to match the L-1 price, and the contract shall be awarded accordingly. If none of the 'Class-I local Supplier' within the margin of purchase preference matches the L-1 price, the contract shall be awarded to the L-1 bidder.
- 3) Where parallel contracts are to be awarded to multiple bidders: In Bids where parallel contracts are to be awarded to multiple bidders subject to matching of L-1 rates or otherwise, the 'Class-I local Supplier' shall get purchase preference over 'Class-II local Supplier' as well as 'Non-local Supplier', as per following procedure:
 - (a) If there is sufficient local capacity and competition for the item to be procured, as notified by the nodal Ministry, only Class I local Suppliers shall be eligible to bid. As such, the multiple Contractors, who would be awarded the contract, should be all and only 'Class I Local Suppliers'.
 - (b) In Bids, other than those mentioned above, 'Class II local Suppliers' or both 'Class II local Suppliers' and 'Nonlocal Suppliers' may also participate in the tender process along with 'Class I Local Suppliers'. If 'Class I Local Suppliers' qualify for the contract award for at least 50% of the tendered quantity in tender, the contract shall be awarded to all the qualified bidders as per award criteria stipulated in the Tender Documents. However, in case 'Class I Local Suppliers' do not qualify for the award of contract for at least 50% of the tendered quantity as per award criteria, purchase preference should be given to the 'Class I local Supplier' over 'Class II local Suppliers'/'Non-local Suppliers' provided that their quoted rate falls within the margin of purchase preference of the highest bid considered for award of

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contract. To ensure that the 'Class I Local Suppliers' taken in totality are considered for award of contract for at least 50% of the tendered quantity, first purchase preference has to be given to the lowest among such eligible 'Class-I local Suppliers', subject to its meeting the prescribed criteria for the award of contract as also the constraint of the maximum quantity that can be sourced from any single Contractor. If the lowest among such 'Class-I local Suppliers' does not qualify for purchase preference because of aforesaid constraints or does not accept the offered quantity, an opportunity shall be given to next higher among such 'Class-I local Supplier', and so on.

4.1.6 Verification of local content and violations:

- 1) The 'Class-I local Supplier'/ 'Class-II local Supplier' at the time of tender, bidding, or solicitation shall be required to indicate the percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local Supplier'/ 'Class-II local Supplier', as the case may be.
- 2) In cases of procurement for a tender value above. INR 10 crores, the 'Class-I local Supplier'/ 'Class-II local Supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or a practising cost accountant or practising chartered accountant (in respect of Contractors other than companies) giving the percentage of local content.
- 3) Complaints about Local content declarations may be made through the channels of Procuring Entity. Procuring Entities and Nodal Ministries may prescribe fees for such complaints.
- 4) Bids with false declarations regarding Local contents shall be rejected as responsive, in addition to punitive actions under the MII orders and for violating the Code of Integrity as per the Tender Document.

4.1.7 Manufacture under license/ technology collaboration agreements with phased indigenization

- 1) If so, declared in TIS and/ or AITB, foreign companies shall enter into a joint venture with an Indian company to participate.
- 2) The Procuring Entity reserves its right, but without being under any obligation to do so, to grant exemption from meeting the stipulated local content to Bidders manufacturing indigenously a product developed abroad under a license from a foreign manufacturer (who holds intellectual property rights) under a technology collaboration agreement/ transfer of technology agreement with a precise phasing of increase in local content. Bidder must obtain such an exemption letter and submit it along with his bid to avail such an exemption.

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4.1.8 Information to be provided by Bidders regarding Make in India policy

Bidder shall provide required self-declaration as detailed in Form 1.2 – Eligibility Declarations:

- 1) Self-declaration of their local content (and required certificate, in case of procurements above Rs 10 Crores) and their status as Class-I/ Class-II/ Non-local Supplier and their eligibility to participate as per this clause.
- 2) If the Tender Document indicates countries identified as not allowing Indian companies to participate in their Government procurement, then a declaration that they are not an 'Entity' of such countries (as per criteria of the FDI Policy of DPIIT as amended from time to time) and are therefore eligible to participate in this tender.
- 3) If a Bidder is claiming exemption (as obtained from relevant authorities) from meeting the stipulated local content on account of manufacturing the product in India under a license from a foreign manufacturer with the precise phasing of increase in local content, he must provide proof thereof.

4.2 Support/ Preferential Treatment to Micro & Small Enterprises (MSEs)

Policies of the Government to support Micro and Small Industries (MSEs, registered as per the following sub-clause) in comparison to non-MSE enterprises shall apply to this procurement.

4.2.1 Registration of MSEs

- 1) MSEs interested in availing such benefits must enclose in Form 1.2 with their offer the Udhya Registration Certificate with the Udhya Registration Number as proof of their being MSE registered on the Udhya Registration Portal. The certificate shall be of latest but before the deadline for the bid submission.
- 2) MSEs shall be treated as owned by SC/ ST or women entrepreneurs:
 - (a) The proprietor(s) shall be SC/ ST or women In proprietary MSEs
 - (b) At least 51% shares shall be held by the SC/ ST or women partners in a partnership MSEs.
 - (c) At least a 51% share shall be held by SC/ ST or women promoters in Private Limited Companies MSEs.

4.2.2 Support to MSEs

- a) Tender sets shall be provided free of cost to MSEs.
- b) MSEs shall be exempted from payment of Earnest Money. (as per ITB-clause 9.4 below, they shall be required only to submit Bid Security Declaration)

4.2.3 Reservation of specific items for procurement

If so stipulated in Tender Information Summary (TIS Appendix to NIT), this procurement is reserved as per the Public Procurement Policy for the Micro and Small Enterprises Order, 2012,



for exclusive purchase from Micro and Small Enterprises (MSEs) registered with agencies, as mentioned in clause 4.2.3 below. In such a case, only such MSEs shall be eligible to submit a bid and be considered.

4.2.4 Purchase Preference to MSEs

The Procuring Entity reserves its option to give purchase preference to MSEs compared to the non-MSE enterprises as per policies of the Government from time to time. This preference shall only apply to products produced and services rendered by Micro and Small Enterprises. If an MSE bidder quotes a price within the band of the lowest (L-1) +15 percent in a situation where the L-1 price is quoted by someone other than an MSE, the MSE bidders are eligible for being awarded up to 25 percent of the total quantity being procured if they agree to match the L-1 price. In case of more than one such eligible MSE, this 25 percent quantity shall be distributed proportionately among these bidders.

4.3 Support to Start-up Enterprises

4.3.1 Definition of Start-up Enterprises

- 1) As defined by DPIIT, an entity shall be considered as a 'Start-up':
 - (a) Upto a period of ten years from the date of incorporation/ registration, if it is incorporated as a private limited company (as defined in the Companies Act, 2013) or registered as a partnership firm (registered under section 59 of the Partnership Act, 1932) or a limited liability partnership (under the Limited Liability Partnership Act, 2008) in India, and
 - (b) Turnover of the entity for any of the financial years since incorporation/ registration has not exceeded INR one hundred crore rupees, and
 - (c) The entity works towards innovation, development or improvement of products or processes or services or a scalable business model with a high potential for employment generation or wealth creation.
- 2) Provided that an entity formed by splitting up or reconstructing an existing business shall not be considered a 'Start-up'.
- 3) A Start-up so identified under the above definition shall be required to obtain and submit along with his bid a certificate of an eligible Start-up from the inter-Ministerial Board of Certification to obtain support.

4.3.2 Support to Start-ups

The Government of India has ordered the following support to Start-ups (as defined by the Department of Promotion of Industrial and Internal Trade - DPIIT).

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- 1) **Exemption from submission of Bid Security:** Such Start-ups shall be exempted from payment of Earnest Money. (as per ITB-clause 9.4 below, they shall be required only to submit Bid Security Declaration)
- 2) **Relaxation in Prior Turnover and Experience:** The Procuring Entity reserves its right to relax the condition of prior turnover and prior experience for start-up enterprises subject to meeting of quality & technical specifications. The decision of the Procuring Entity in this regard shall be final.

5. The Goods, Eligible Goods and Basis of Evaluation

5.1 Eligible Goods –Origin and Minimum Local Content

Unless otherwise stipulated in the Tender Document, all 'Goods' and 'incidental Works/ Service' to be supplied under the contract must conform to i) restrictions on certain countries with land-borders with India (ITB-clause 3.3; ii) minimum local content (Make in India Policy – ITB-clause 4.1). If Bidder avails benefits under any preferential policy as Class-I Local Supplier or as MSE or Start-up enterprise, the Goods must not circumvent the provisions relating to such benefits.

5.2 Basis of Evaluation for Schedules/ packages

- 1) Unless otherwise stipulated in the TIS/ AITB, if there is more than one schedule/ package in Section VI: Schedule of Requirements, evaluation of financial ranking of bids shall be done separately for each schedule, and Bidder has the option to submit its quotation for any one or more schedules/ packages and, also, to offer special discount for combined schedules. However, Bidder shall quote for the complete Goods as stipulated in a schedule quoted.
- 2) Unless otherwise stipulated in the TIS/ AITB, if there is only a list of items without grouping into schedules, evaluation of financial ranking of bids shall be done for each item separately, and Bidder has the option to submit its quotation for any one or more items and, also, to offer special discount for combined items. However, Bidder shall quote for all the destinations included in an item quoted.
- 3) Unless otherwise stipulated in the TIS/ AITB, if there is only one item in the Goods with several destinations, evaluation of financial ranking of bids shall be done separately for each destination included in that item separately, and Bidder has the option to submit its quotation for any one or more destinations and, also, to offer special discounts for all destinations.

6. Bid Prices, Taxes and Duties

6.1 Prices

6.1.1 Competitive and Independent Prices

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- (i) The price of the Goods quoted ex-factory, ex-showroom, ex-warehouse or off-the-shelf, as applicable, shall be assumed to include all taxes and duties like GST, customs duty, etc. already paid or payable on the components and raw material used in the manufacture or assembly of the Goods or on the previously imported Goods of foreign origin.
 - (ii) Any GST, which shall be payable on the Goods in India if the contract is awarded.
 - (iii) Charges towards inland transportation, insurance, and other local costs incidental to the delivery of the Goods to their final destination as stipulated in Section VI: Schedule of Requirements and
 - (iv) The price of incidental Works/ Services, as and if mentioned in Section VI: Schedule of Requirements.
- (b) **Foreign Goods:** For Goods offered from abroad, the prices in the corresponding price schedule shall be entered separately in the following manner:
- (i) The price of Goods quoted FAS/ FOB port of shipment or CIF port of entry in India or CIF specified place of destination in India as indicated in the Schedule of Requirements.
 - (ii) Wherever applicable, the amount of customs duty on the Goods to be imported.
 - (iii) The charges for inland transportation, insurance, and other local costs incidental to the delivery of the Goods from the port of entry in India to their final destination, as stipulated in the Schedule of Requirements. and
 - (iv) The charges for incidental Works/ Services, as and if mentioned in the Schedule of Requirements, showing break-up as per their country of origin.
 - (v) Unless otherwise explicitly indicated in the contract, the terms FOB, FAS, CIF etc. for imported Goods offered from abroad shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris
 - (vi) The need for an indication of all such price components by the Bidders, as required in this clause (viz., ITB clause 6.1.3), is for comparison of the Bids by the Procuring Entity and shall no way restrict the Procuring Entity's right to award the contract on the selected Bidder on any of the terms offered.

3) Price Components in case of Capital Goods/ Machinery and Plant

If TIS/ AITB declares it to be the procurement of Capital Goods/ Machinery & Plant following price components shall be provided in Form 2: Schedule of Requirements – Compliance and Form 3: Technical Specifications and Quality Assurance – Compliance:

(a) **Comprehensive Operation and Annual Maintenance Contract (COAMC)**

If so stipulated in TIS/ AITB, the Bidders shall carry out post-warranty Comprehensive Operation and Annual Maintenance Contract (COAMC) for seven years after the expiry of the warranty period. They should mention the maintenance schedule

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under the COAMC, and other details of spares to be used in such preventive maintenance. An amount equivalent to 20% of the total contract value will be paid during the 7 years COAMC period, as per the payment terms of the tender. The cost of spares and service charges utilized during the seven-year COAMC period shall be included in the D.A.P. destination price.

(b) Insurance

If so stipulated in TIS/ AITB, the Bidders shall also quote in their financial bids the cost of Insurance of the consignment of the equipment and spares upto the ultimate consignee. If not explicitly quoted, it shall be assumed to be included in the process quoted for the equipment.

(c) Incidental Works/ Services

If so stipulated in TIS/ AITB, the Bidders shall provide the specified incidental works/ services (e.g., Installation, Commissioning, Training of Operator etc.). The Bidders may quote separate prices for these. Otherwise, it shall be assumed to be included in the prices of the main equipment price.

- 4) The indication of such price components is to compare the Bids and shall not restrict the Procuring Entity's right to award the contract on any terms offered.

6.1.4 Price Schedule

- 1) Bidders are to upload only the downloaded Price Schedule (in excel format) after entering the relevant fields without any alteration/ deletion/ modification of other portions of the excel sheet. Delivery Schedule and Terms of delivery are also to be quoted. All the columns shown in the price schedule should be filled up as required. If any column does not apply to a Bidder, he should clarify the same.
- 2) Bidders shall fill in their rates other than zero value in the specified cells without keeping it blank.
- 3) The quoted price shall be considered to include all relevant financial implications, including inter-alia the scope of the Goods to be supplied, location of the bidder, location of the consignee(s), terms of delivery, extant rules and regulations relating to taxes, duties, customs, transportation, environment, labour of the bidder's country and in India.

6.1.5 Provisions of GST

- 1) Break up of different price elements, i.e., as per GST Act, shall be indicated separately, along with its associated HSN code and GST rate.
- 2) While quoting the basic rate, the bidder should offset the input credit available/ to be availed as per the GST Act.
- 3) Please refer to ITB-clause 6.3 for further details.

6.1.6 Currencies of Bid and Payment

Section II: Instructions To Bidders (ITB)

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- 1) Unless otherwise stipulated in the Tender Document, the currency of bid and payment shall be quoted by Bidder entirely in Indian Rupees. All payments shall be made in Indian Rupees only.
- 2) Where the Tender Document permits quotations in different currencies, then, for domestic Goods, prices shall be quoted in Indian rupees only, and for imported Goods, prices shall be quoted either in Indian rupees or in the currency stipulated in the AITB. For evaluation, all quoted prices shall be converted into Indian Rupees as per the procedure mentioned in ITB-clause 12.4.2 below.
 - (a) Regarding price(s) for incidental Works/ Services, if any required with the Goods, the same shall be quoted in Indian Rupees if such Works/ Services are to be performed/ undertaken in India.
 - (b) Commission for Indian Agent, if any and if payable, shall be indicated in the space provided for in the price schedule and quoted in Indian Rupees only.

6.1.7 Non-compliance

Tenders, where prices are quoted in any other way, shall be rejected as nonresponsive.

6.2 Firm/ Variable Price

6.2.1 Firm Price

Unless otherwise stipulated in the AITB, prices quoted by Bidder shall remain firm and fixed during the currency of the contract and not subject to variation on any account.

6.2.2 Exchange Rate Variation

Subject to provisions of ITB-clause 6.2.1 above, where final prices are quoted in Indian Rupees (INR) involving substantial imports content ($> 25\%$), and the deliveries exceed 12 months, Bidder may, if they so desire, stipulate Foreign Exchange Rate Variation (ERV) clause. In that case, the ERV shall be borne by the Procuring Entity within the original Delivery Period. ERV shall be applicable only for components used to manufacture supplied Goods imported after the contract date.

- 1) The offer of Bidder should indicate import content and the currency used for calculating import content. The Base Exchange rate of each significant currency used for calculating the Foreign Exchange content of the contract shall be as prevailing on the last deadline for submission of Techno-commercial Bids, and variation beyond the base Exchange Rate shall be calculated up to the midpoint of the delivery period unless the bidder has already indicated the schedule within which the bidder shall import material.
- 2) If the delivery period is refixed/ extended, ERV shall not be admissible if this is due to the contractor's default.

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- 3) Unless otherwise stipulated in the contract, documents for claiming ERV shall be:
- (a) A bill of ERV claim enclosing working sheet.
 - (b) Banker's Certificate/ debit advice detailing F.E. paid and exchange rate as on the date of the relevant transactions.
 - (c) Copies of import order/agreement placed by the contractor on its Suppliers.
 - (d) Invoice of Contractor's Suppliers for the relevant import order

6.3 Goods and Services Tax (GST)

6.3.1 GST Registration Status:

- 1) All the bidders/ Bidders should ensure that they are GST compliant and their quoted tax structure/ rates as per GST Act/ Rules. Bidder should be registered under GST and furnish GSTIN number and GST Registration Certificate in their offer unless they are specifically exempted from registration under specific notification/ circular/ section/ rule issued by statutory authorities.
- 2) **GST Registration Number (15-digit GSTIN).** If the bidder has multiple business verticals in a state and has separate registration for each vertical, the GSTIN of each vertical is concerned with the supply and service involved, as per the scope of Schedule of Requirements and Price Schedule quoted. If the supply/ service provided is from multiple states, the bidder should mention GST registration numbers for each state separately.
- 3) **Composition scheme:** If the Bidder has opted for a composition levy under Section 10 of CGST, he should declare the fact while bidding along with GSTIN and GST registration certificate.
- 4) **Exemption from Registration:** If a bidder is not liable to take GST registration, i.e., having turnover below threshold, he shall submit undertaking/ indemnification against tax liability. Bidder claiming exemption in this respect shall submit a valid certificate from practising Chartered Accountant (CA)/ Cost Accountant with Unique Document Identification Number (DIN) to the effect that Bidder fulfils all conditions prescribed in notification exempting him from registration. Such bidder/ dealer shall not charge any GST and/ or GST Cess in the bill/ invoice. In such case, applicable GST shall be deposited under Reverse Charge Mechanism (RCM) or otherwise as per GST Act by the Procuring Entity directly to concerned authorities. Bidder should note that his offer would be loaded with the payable GST under the RCM. Further, Bidder should notify and submit to the Procuring Entity within 15 days from the date of becoming liable to registration under GST.
- 5) The Procuring Entity's state-wise GSTINs are indicated in Section VI – Schedule of Requirements and/ or TIS/ AITB.

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6.3.2 HSN Code and GST Rate:

- 1) HSN (Harmonized System of Nomenclature) code for the goods provided in this Tender Document is only indicative. It shall be the responsibility of Bidder to ensure that they quote the exact HSN Code and corresponding GST rate for the goods being offered by them.
- 2) As per the GST Act, the bid and contract must show the GST Tax Rates (and GST Cess if applicable) and GST Amount explicitly and separate from the bid/ contract price (exclusive of GST). If the price is stated to be inclusive of GST, the current rate included in the price must be declared by the bidder.
- 3) If a Bidder asks for GST (and GST Cess if applicable) to be paid extra, the rate and nature of such taxes applicable should be shown separately. Bidders should quote 'GST' if payable extra on the total basic rate of each cost element and quote GST in '%' inclusive of cess.
- 4) If GST, other taxes, duties are not specified, or column is left blank in the price schedule, it shall be presumed that no such tax/ levy is applicable or payable by the Procuring Entity.
- 5) **Applicability to Imported Goods/ Services:** Following the implementation of GST, the import of commodities shall not be subject to such erstwhile applicable duties like safeguard duty, education cess, basic customs duty, anti-dumping duty, etc. All these supplementary custom duties are subsumed under GST. The supply of commodities or services or both, if imported into India, shall be considered as supply under inter-state commerce/ trade and shall attract integrated tax (IGST). The IGST rate and GST cess shall be applicable on the 'Custom Assessable Value' plus the 'Basic Customs duty applicable thereon'.

6.4 Payments

6.4.1 General

Unless otherwise stipulated, Payment terms laid down in clause GCC 10.3 shall be applicable.

6.4.2 Advance Payments

Twenty five percent (25%) of total contract value will be paid in two instalments as advance payment (Twenty Percent (20%) of total contract value will be paid as First instalment after issuance of supply order and second instalment of Five Percent (5%) of total contract value will be paid after successful completion of Detailed Design Review (DDR) as per Section VII, Clause no 16 of the tender document) , 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 to support the bidder in design and manufacturing of high-end engineering goods. Such Bank Guarantee shall remain effective until the advance payment

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has been fully repaid / adjusted and if the Contract is terminated due to default of the Contractor, the advance would be deemed as interest bearing advance payment at the interest rate of GPF + 2% to be compounded quarterly and recovered by IMD from the 110% Unconditional Advance Bank Guarantee.

7. Downloading the Tender Document; Corrigenda and Clarifications

7.1 Downloading the Tender Document

The Tender Document shall be published and be available for download as mentioned in TIS. The Bidders can obtain the Tender Document after the date and time of the start of availability till the deadline for availability. If the office happens to be closed on the deadline for the availability of the Tender Document, the deadline shall not be extended.

7.2 Corrigenda/ Addenda to Tender Document

Before the deadline for submitting bids, the Procuring Entity may update, amend, modify, or supplement the information, assessment or assumptions contained in the Tender Document by issuing a corrigenda and addenda. The corrigenda and addenda shall be published in the same manner as the original Tender Document. Without any liability or obligation, the Portal may send intimation of such corrigenda/ addenda to bidders who have downloaded the document under their login. However, the bidders' responsibility is to check the website(s) for any corrigenda/ addenda. Any corrigendum or addendum thus issued shall be considered a part of the Tender Document. To give reasonable time to the prospective bidders to take such corrigendum/ addendum into account in preparing their bids, the Procuring Entity may suitably extend the deadline for the bid submission, as necessary. After the procuring entity makes such modifications, any Bidder who has submitted his bid in response to the original invitation shall have the opportunity to either withdraw his bid or re-submit his bid superseding the original bid within the extended time of submission as per ITB-clause 10.4.1 below.

7.3 Clarification on the Tender Document

A Bidder may seek clarification of the Tender Document from Office/ Contact Person/ e-procurement Help Desk as mentioned in TIS, provided the clarifications are raised before the clarification end date mentioned in TIS (or if not mentioned, within 7 days before the deadline for the bid submission). The Procuring Entity shall respond within 5 working days of receipt of such a request for clarification. The query and clarification shall be shared on the portal with all the prospective bidders. Any modification of the Tender Document that may become necessary due to the clarification shall be made by the Procuring Entity through an Addendum/ Corrigendum issue under the sub-clause above.

8. Pre-bid Conference

- 1) If a Pre-bid conference is stipulated in the TIS, prospective bidders interested in participating in this tender may attend a Pre-bid conference to clarify techno-commercial conditions of the Tenders at the venue, date and time specified therein. Participation in the Pre-bid conference is restricted to prospective bidders who have downloaded the Tender Document.
- 2) Participation is not mandatory. However, if a bidder chooses not to (or fails to) participate in the Pre-bid conference or does not submit a written query, it shall be assumed that they have no issues regarding the techno/ commercial conditions.
- 3) The date and time by which the written queries for the Pre-bid must reach the authority and the last date for registration for participation in the Pre-bid conference are also mentioned in the TIS. If the dates are not mentioned, such date and time shall be 7 days before the date and time of the pre-bid conference.
- 4) Delegates participating in the Pre-bid conference must provide a photo identity and an authorization letter as per the format in Format 2: "Authorization for attending a Pre-bid Conference " from their Company/ principals; else, they shall not be allowed to participate. The pre-bid conference may also be held online at the discretion of the Procuring Entity.
- 5) After the Pre-bid conference, Minutes of the Pre-bid conference shall be published on CPP Portal / GeM portal (gem.gov.in) or the Procuring Entity's website mausam.imd.gov.in. within seven days from the Pre-bid conference. If required, a clarification letter and corrigendum to Tender Document shall be issued, containing amendments of various provisions of the Tender Document, which shall form part of the Tender Document. As per ITB-clause 7.2 above, to give reasonable time to the prospective bidders to take such clarifications into account in preparing their bids, the Procuring Entity may suitably extend, as necessary, the deadline for the bid submission.

9. Preparation of Bids

9.1 The bid

9.1.1 Language of the bid

Unless otherwise stipulated in the AITB, the bid submitted by Bidder and all subsequent correspondence and documents relating to the bid exchanged between Bidder and the Procuring Entity shall be written in English or the Official Language. However, the language of any printed literature furnished by Bidder in connection with its bid may be written in any other language provided a translation accompanies the same in the bid language. For purposes of interpretation of the bid, translation in the language of the bid shall prevail.

9.1.2 Acquaintance with Local Conditions and Factors

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The Bidder, at his own cost, responsibility, and risk, is encouraged to visit, examine, and familiarise himself with all the site/ local conditions and factors. The Bidder acknowledges that before the submission of the bid, he has, after a complete and careful examination, made an independent evaluation of the Site/ local conditions, the legal, environmental, infrastructure, logistics, communications and any other conditions or factors of which would have any effect on the price to be quoted by him or affecting performance/ completion of the contract. Bidders shall themselves be responsible for compliance with Rules, Regulations, Laws and Acts in force from time to time at relevant places. On such matters, the Procuring Entity shall have no responsibility and shall not entertain any request from the bidders in these regards.

9.1.3 Cost of Bidding

The Bidder(s) shall bear all direct or consequential costs, losses and expenditure associated with or relating to the preparation, submission, and subsequent processing of their Bids, including but not limited to preparation, copying, postage, delivery fees, expenses associated with any submission of samples, demonstrations, or presentations which the Procuring Entity may require, or any other costs incurred in connection with or relating to their Bids. All such costs, losses and expenses shall remain with the Bidder(s), and the Procuring Entity shall not be liable in any manner whatsoever for the same or any other costs, losses and expenses incurred by a Bidder(s) for participation in the Tender Process, regardless of the conduct or outcome of the Tender Process. Bidding by 'sister concerns / group of companies' would not be considered and treated as non-responsive bid.

9.1.4 Interpretation of Provisions of the Tender Document

The provisions in the Tender Document must be interpreted in the context in which these appear. Any interpretation of these provisions far removed from such context or other contrived or in between-the-lines interpretation is unacceptable.

9.1.5 Quote Quantities/ Prices in both Numerals and Words

Although the software on the Portal may convert quantities/ rates/ amounts in numerical digits in Bids to words, the bidders are advised to ensure that there is no ambiguity in this regard. Upon submission of bids and /or bids opening, any request for any type of error/ambiguity will not be accepted.

9.1.6 Alternative Bids not Allowed

Unless otherwise stipulated in the TIS/ AITB, conditional offers, alternative offers, multiple bids by a bidder shall not be considered. The Portal shall permit only one bid to be uploaded. Bidding by sister concerns / group of companies" would not be considered and treated as non-responsive bid.

9.2 Documents comprising the bid:

9.2.1 Techno-commercial bid/ Cover

"Technical Bid" shall include inter-alia the scanned copies of duly signed or digitally signed copies of the following documents in pdf format. Pdf documents should not be password protected. *No price details should be given or hinted at in the Technical bid:*

- 1) Form 7: Documents relating to Bid Security: A Bid Securing Declaration (BSD) in lieu of bid security in the format provided therein shall be uploaded as per ITB clause 9.4.
- 2) Form 1: bid Form (to serve as covering letter and declarations applicable for both the Technical bid and Financial bid);
 - (a) Form 1.1: Bidder Information;
 - (b) Form 1.2: Eligibility Declarations;
 - (c) If applicable, Form 1.3: OEM's Authorization (Ref ITB-Clause 1.5 also): Unless specifically barred in TIS/ AITB, in case Bidder offers to supply Goods, which some other firm (OEM) manufactures, Bidder must have been duly authorized by the OEM to quote for and supply the Goods to the Procuring Entity in this particular tender specifically. Bidder shall submit OEM's authorization letter to this effect as per this.
 - (d) If applicable. Form1.4: Declaration by Agents/ Associates of Foreign Principals/ OEMs (ITB-clause 3.5 above)
- 3) Form 4: 'Qualification Criteria - Compliance': Documentary evidence needed to establish the Bidder's qualifications as stipulated in Section VIII: Qualification Criteria as follows. Besides the stipulated documents, other supporting documents, literature, pamphlets may also be attached.:
 - (a) Bidder shall also submit Form 4.1: Performance Statement to prove his technical, production and financial capabilities and eligibility, commensurate with requirements of this Tender. OEM and the prime bidder shall be the separate entities within the same Joint Venture. However, Financial standing shall be considered for the prime bidder but the experience of OEM shall be considered.
- 4) Form 2: Schedule of Requirements - Compliance: Bidders should fill this form to detail the Schedules of Goods offered by them, maintaining the same numbering and structure. They may add additional details not covered elsewhere in their bid. They should highlight here any deviations/ exceptions/ reservations regarding Section VI: 'Schedule of Requirements', in a chart form, without any ambiguity or conditionality along with justification and supporting documents. Even in case of no deviation, please fill in confirmations and nil deviation statements. If mentioned elsewhere in the bid, such deviations shall not be recognised and null and void.
- 5) Form 3 - Technical Specifications and Quality Assurance - Compliance: Bidder shall upload the required and relevant documents like technical data, literature, drawings,

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test Reports/ Certificates and or/ or Type Test Certificates (if applicable/ necessary) from NABL/ ILAC/ Government lab with supporting documents, to establish that the goods and incidental Works/ Services offered in the bid fully conform to the goods and Works/ Services specified by the Procuring Entity in the Tender Document. Bidder is also required to provide clause by clause compliance/ deviation Statement in a chart form (without ambiguity or conditionality along with justification) relating to all parameters of Technical Specifications, Quality Assurance. Even in case of no deviation, please fill in confirmations and nil deviation statements. If mentioned elsewhere in the bid, such deviations shall not be recognised and null and void.

- 6) Form 5 - Terms and Conditions - Compliance: Bidder must comply with the entire commercial and other clauses of this Tender Document. Any deviations should be listed in a chart form without ambiguity or conditionality, along with justification and supporting documents. All such Statements and Documents shall be uploaded as Form 5. Even in case of no deviation, please fill in confirmations and nil deviation statements. If mentioned elsewhere in the bid, such deviations shall not be recognised and null and void.
- 7) Form 6- Checklist for the Bidders. Bidder must also upload the Checklist given in the Tender Document as Form 6 to confirm that he has complied with all the instructions in the Tender Document, and nothing is inadvertently left out. This checklist is only for general guidance and is not comprehensive, and does not absolve Bidder from complying with all the requirements stipulated elsewhere in the Tender Document.
- 8) If stipulated in TIS/ AITB, duly signed Form 8: Integrity Pact.
- 9) Any other format/ form if stipulated in AITB or if considered relevant by the bidder

9.2.2 Financial bid/ Cover

"Financial bid" shall comprise the Price Schedule (To be submitted separately as an excel sheet) considering all financially relevant details, including Taxes and Duties as per ITB-clause 6.3. No additional technical details, which have not been brought out in the Technical bid shall be brought out in the Financial bid.

9.3 Bid Validity

- 1) Unless specified to the contrary in the TIS/ AITB, Bids shall remain valid for a period not less than 180 days from the deadline for the bid submission stipulated in TIS. A bid valid for a shorter period shall be rejected as nonresponsive.
- 2) In case the day upto which the bids are to remain valid falls on/ subsequently declared a holiday or closed day for the Procuring Entity, the bid validity shall automatically be deemed to be extended upto the next working day.

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- 3) In exceptional circumstances, before the expiry of the original time limit, the Procuring Entity may request the bidders to extend the validity period for a specified additional period. The request and the bidders' responses shall be made in writing or electronically. A bidder may agree to or reject the request. A bidder who has agreed to the Procuring Entity's request for extension of bid validity, in no case, he shall be permitted to modify his bid.

9.4 Bid Security - Related Documents

- 1) In lieu of Bid Security, all Bidders shall furnish/ upload a Bid Securing Declaration (BSD) as Form 7: Documents Relating to Bid Security, along with its Technical bid. The BSD is required to protect the Procuring Entity against the risk of the Bidder's unwarranted conduct as amplified under the sub-clause below.
- 2) The BSD provides for automatic suspension of the Bidder from being eligible for bidding in any tender in Ministry/ Department of Procuring Organisation for 2 years from the date of such enforcement. This declaration shall stand enforced if Bidder breaches the following obligation(s) under the tender conditions:
 - (a) withdraws or amends his bid or impairs or derogates from the bid in any respect within the period of validity of its bid; or
 - (b) after having been notified within the period of bid validity of the acceptance of his bid by the Procuring Entity:
 - i) refuses to or fails to submit the original documents for scrutiny or the required Performance Security within the stipulated time as per the conditions of the Tender Document.
 - (i) fails or refuses to sign the contract.
- 4) Unsuccessful Bidders' bid-Securing Declaration shall expire, if the contract is not awarded to them, upon:
 - (a) receipt by Bidder of the Procuring Entity's notification
 - (i) of cancellation of the entire tender process or rejection of all bids or
 - (ii) of the name of the successful bidder or
 - (b) forty-five days after the expiration of the bid validity or any extension thereof
- 5) The bid-Securing Declaration of the successful bidder shall stand expired only when Bidder has furnished the required Performance Security and signed the Agreement.

9.5 Non-compliance with these provisions

Bids are liable to be rejected as nonresponsive if a Bidder:

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10.1 Relationship between Bidder and eProcurement Portal

10.2 Signing of bid

10.3 Submission/ uploading of Bids.

10.3.1 Submission/ Uploading to the Portal

- 1) No manual Bids shall be made available or accepted for submission (except for originals of scanned copies as per sub-clause 5 below). In the case of downloaded documents, Bidder must not make any changes to the contents of the documents while uploading, except for filling the required information – otherwise, the bid shall be rejected as nonresponsive.
- 2) Bids shall be received only *Online* on or before the deadline for the bid submission as notified in TIS.
- 3) Only one copy of the bid can be uploaded, and Bidder shall digitally sign all statements, documents, certificates uploaded by him, owning sole and complete responsibility for their correctness/ authenticity as per the provisions of the IT Act 2000 as amended from time to time.

2 By Aspirant Soma Sen Ray Signature Signature Signature Signature Signature Signature

- 4) Bidder need not sign or up-load the Schedules in ITB-clause 1.4 above while uploading his bid unless otherwise instructed in the Tender Document. It is assumed that Bidder commits itself to comply with all the Sections and documents uploaded by the Tender Inviting Officer.
- 5) Bidder must upload scanned copies of originals (or self-attested copies of originals – as specified). Uploaded Pdf documents should not be password protected. Bidder should ensure the clarity/ legibility of the scanned documents uploaded by him.
- 6) The Procuring Entity reserves its right to call for verification originals of all such self-certified documents from the Bidders at any stage of evaluation, especially from the successful Bidder(s) before the issue of Letter of Award (LoA).
- 7) Regarding the protected Price Schedule (excel format, Cover-2), Bidder shall write his name in the space provided in the specified location only. Bidder shall type rates in the figure only in the rate column of respective item(s) without any blank cell or Zero values in the rate column, without any alteration/ deletion/ modification of other portions of the excel sheet. If space is inadequate, Bidder may upload additional documents under "Additional Documents" in the "bid Cover Content."
- 8) The date and time of the deadline for the bid submission shall remain unaltered even if the specified date is declared a holiday for the Tender Inviting Officer.
- 9) The date and time of the e-Procurement server clock, which is also displayed on the dashboard of the bidders, shall be taken as the reference time for deciding the closing time of bid submission. Bidders are advised to ensure they submit their bid within the deadline and time of bid submission, taking the server clock as a reference, failing which the portal shall not accept the Bids. No request on the account that the server clock was not showing the correct time and that a particular bidder could not submit their bid because of this shall be entertained. Failure or defects on the internet or heavy traffic at the server shall not be accepted as a reason for a complaint. The Procuring Entity shall not be responsible for any failure, malfunction or breakdown of the electronic system used during the e-Tender Process.
- 10) All Bids uploaded by Bidder to the portal shall get automatically encrypted. The encrypted bid can only be decrypted/ opened by the authorised persons on or after the due date and time. The bidder should ensure the correctness of the bid before uploading and take a printout of the system generated submission summary to confirm successful bid upload.
- 11) The Procuring Entity may extend the deadline for bids submission by issuing an amendment as per ITB-clause 7.2 above, in which case all rights and obligations of the Procuring Entity and the bidders previously subject to the original deadline shall then be subject to the new deadline for the bid submission.



- 12) Bid submitted through modalities other than those stipulated in TIS shall be liable to be rejected as nonresponsive.

10.3.2 Implied acceptance of procedures by Bidders

Submission of bid in response to the Tender Document is deemed to be acceptance of the e-Procurement and tender procedures and conditions of the Tender Document.

10.3.3 Late Bids

The bidder shall not be able to submit his bid after the expiry of the deadline for the bid submission (as per server time). Therefore, in eProcurement, a situation of Late Tender does not arise.

10.4 Modification, Resubmission and Withdrawal of Bids

10.4.1 Modification & Resubmission

Once submitted in e-Procurement, Bidder cannot view or modify his bid since it is locked by encryption. However, resubmission of the bid by the bidders for any number of times superseding earlier bid(s) before the date and time of submission is allowed. Resubmission of a bid shall require uploading of all documents, including financial bid afresh. The system shall consider only the last bid submitted as the valid bid.

10.4.2 Withdrawal

- 1) The bidder may withdraw his bid before the bid submission deadline, and it shall be marked as withdrawn and shall not get opened during the Bid opening.
- 2) No bid should be withdrawn after the deadline for the bid submission and before the expiry of the bid validity period. If a Bidder withdraws the bid during this period, the Procuring Entity shall be within its right to forfeit the Bid Security / EMD, in addition to other punitive actions provided in the Tender Document for such misdemeanour.

11. Bid Opening

The date & time of the opening bid is as stipulated in TIS. Bids cannot be opened before the specified date & time, even by the Tender Inviting Officer, the Procurement Officer, or the Publisher. If the specified date of Bid Opening falls on a subsequently declared a holiday or closed day for the Procuring Entity, the Bids shall be opened at the appointed time on the next working day.

12. Evaluation of Bids and Award of Contract

12.1 General norms

12.1.1 Evaluation based only on declared criteria.

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The evaluation shall be based upon scrutiny and examination of all relevant data and details submitted by Bidder in its/ his bid and other allied information deemed appropriate by Procuring Entity. Evaluation of bids shall be based only on the criteria/ conditions included in the Tender Document.

12.1.2 Deviations/ Reservations / Omissions - Substantive or Minor

- 1) During the evaluation of Bids, the following definitions apply:
 - (a) "Deviation" is a departure from the requirements specified in the Tender Document;
 - (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Tender Document; and
 - (c) "Omission" is the failure to submit part or all of the information or documentation required in the Tender Document.
- 2) A deviation/ reservation/ omission from the requirements of the Tender Document shall be considered as a substantive deviation as per the following norm, and the rest shall be considered as Minor deviation:
 - (d) which affects in any substantive way the scope, quality, or performance of the product;
 - (e) which limits in any substantive way, inconsistent with the Tender Document, the Procuring Entity's rights or the Bidder's obligations under the contract; or
 - (f) Whose rectification would unfairly affect the competitive position of other Bidders presenting substantively responsive Bids.
- 3) The decision of the Procuring Entity shall be final in this regard. Bids with substantive deviations shall be rejected as nonresponsive.
- 4) Variations and deviations and other offered benefits (techno-commercial or financial) above the scope/ quantum of the Goods specified in the Tender Document shall not influence evaluation Bids. If the bid is otherwise successful, such benefits shall be availed by the Procuring Entity, and these would become part of the contract.
- 5) The Procuring Entity reserves the right to accept or reject bids with any minor deviations. Wherever necessary; the Procuring Entity shall convey its observation as per ITB-clause 12.1.3 below, on such 'minor' issues to Bidder by registered/ speed post/ electronically etc. asking Bidder to respond by a specified date. If Bidder does not reply by the specified date or gives an evasive reply without clarifying the point at issue in clear terms, that bid shall be liable to be rejected as nonresponsive.

12.1.3 Clarification of Bids and shortfall documents

- 1) During the evaluation of Techno commercial or Financial Bids, the Procuring Entity may, at its discretion, but without any obligation to do so, ask Bidder to clarify its bid by a specified date. Bidder should answer the clarification within that specified date (or, if not specified, 7 days from the date of receipt of such request). The request for clarification shall be submitted in writing or electronically, and no change in prices or substance of the bid shall be sought, offered, or permitted that may grant any undue

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advantage to such bidder. Any clarification submitted by a Bidder regarding its Bid that is not in response to a request by the Purchasing Entity shall not be considered.

- 2) If discrepancies exist between the uploaded scanned copies and the Originals submitted by the bidder, the original copy's text, etc., shall prevail. Any substantive discrepancy shall be construed as a violation of the Code of Integrity, and the bid shall be liable to be rejected as nonresponsive in addition to other punitive actions under the Tender Document for violation of the Code of Conduct.
- 3) The Procuring Entity reserves its right to, but without any obligation to do so, to seek any shortfall information/ documents only in case of historical documents which pre-existed at the time of the Bid Opening, and which have not undergone change since then and does not grant any undue advantage to any bidder. There is a provision on the portal for requesting Short-fall documents from the bidders. The system allows taking the shortfall documents from any bidders only once after the technical bid opening.

12.1.4 Contacting Procuring Entity during the evaluation

From the time of bid submission to awarding the contract, no Bidder shall contact the Procuring Entity on any matter relating to the submitted bid. If a Bidder needs to contact the Procuring Entity for any reason relating to this tender and/ or its bid, it should do so only in writing or electronically. Any effort by a Bidder to influence the Procuring Entity during the processing of bids, evaluation, bid comparison or award decisions shall be construed as a violation of the Code of Integrity, and bid shall be liable to be rejected as nonresponsive in addition to other punitive actions for violation of Code of Integrity as per the Tender Document.

12.2 Evaluation of Bids

12.2.1 Preliminary Examination of Bids - Determining Responsiveness

A substantively responsive bid is complete and conforms to the Tender Document's essential terms, conditions, and requirements, without substantive deviation, reservation, or omission. Only substantively responsive bids shall be considered for further evaluation. Unless otherwise stipulated in the AITB, the following are some of the crucial aspects for which a bid shall be liable to be rejected as nonresponsive:

- 1) The bid is not in the prescribed format or is not submitted as per the stipulations in the Tender Document.
- 2) Required EMD has not been provided.
- 3) Bidder is not eligible to participate in the bid as per laid down eligibility criteria;
- 4) The Goods offered are not eligible as per the provision of this tender.

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- 5) Bidder has quoted Goods manufactured by a different firm without the required authority letter from the proposed manufacturer.
- 6) Bidder has quoted conditional bids or more than one bid or alternative bids unless permitted explicitly in the TIS/ AITB.
- 7) The bid validity is shorter than the required period.
- 8) The bid departs from the essential requirements stipulated in the bidding document;
- 9) Against a schedule in Section VI: Schedule of Requirement, Bidder has not quoted the entire Goods as stipulated in that schedule.
- 10) Non-submission or submission of illegible scanned copies of stipulated documents/ declarations

12.2.2 The evaluation process in Single/ multiple Cover(s) and PQB Tenders

- 1) Unless otherwise stated, this Tender Process is for multiple (two or more) covers Bids. Initially, only the techno-commercial bids shall be opened on the stipulated date of opening of bids. After that, the techno-commercial evaluation shall be done whether these bids meet the eligibility & qualification criteria and techno-commercial aspects. Subsequent opening of financial bids and financial evaluation shall be done only of bids declared successful in techno-commercial evaluation.
- 2) If it is stipulated that this is the second stage of the two-stage tender Process or pre-qualified bidding (PQB) after shortlisting qualified bidders in the EoI/ PQB stage, evaluation of responses from the shortlisted qualified bidders shall follow the same procedure as described above for multiple covers Tender Process.
- 3) If the TIS/ AITB stipulate this to be a single cover Tender process, the single cover bids shall be opened on the stipulated date of opening of bids. After that, evaluation of eligibility/ qualification of bidders, the techno-commercial, and the financial aspects shall be done simultaneously. There shall be no interim/ separate declaration of results of the techno-commercial evaluation.

12.3 Techno-commercial Evaluation

Only substantively responsive bids shall be evaluated for techno-commercial evaluation. In evaluating the techno-commercial bid, conformity to the eligibility/ qualification criteria, technical specifications, and Quality Assurance; and commercial conditions of the offered Goods to those in the Tender Document is ascertained. Additional factors incorporated in the Tender Document shall also be considered in the manner indicated therein. Bids with substantive techno-commercial deviations shall be rejected as nonresponsive. Procuring entity reserves its right to consider and allow minor deviations in technical and Commercial Conditions as per ITB-clause 12.1.2.

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12.3.1 Evaluation of eligibility

Procuring Entity shall determine, to its satisfaction, whether the Bidders are eligible as per ITB-clause 3.2 and NIT-clause 3 above to participate in the Tender Process as per submission in Form 1.2: Eligibility Declarations in Form 1: bid Form. Tenders that do not meet the required eligibility criteria prescribed shall be rejected as nonresponsive.

12.3.2 Evaluation of Qualification Criteria

Procuring Entity shall determine, to its satisfaction, whether the Bidders are qualified and capable in all respects to perform the contract satisfactorily (subject to dispensation, if any, for Start-ups as per ITB-Clause 4.3 above) as per submission in Form 4 and its Form 4.1. This determination shall, inter-alia, consider the Bidder's financial, technical and production or other prescribed capabilities for satisfying requirements incorporated in the Tender Document. The determination shall not consider the qualifications of other firms such as the Bidder's subsidiaries, parent entities, affiliates, subcontractors (other than specialized subcontractors if permitted in the bidding document), or any other firm(s) different from the Bidder.

12.3.3 Evaluation of Conformity to Schedule of Requirements and Technical Specifications/ Quality Assurance

Procuring Entity shall evaluate schedule-wise conformity of the description, scope of supply, quantity, delivery schedules, terms of delivery, transportation of the offered goods to Section VI- Schedule of requirements as per submissions in Form 2: 'Schedule of Requirements - Compliance'. Technical specifications, drawings, quality assurance and other technical terms and conditions of the Bids shall be examined, as per Form 3: 'Technical Specifications and Quality Assurance - Compliance'. Unless otherwise stated in the TIS/ AITB, alternative offers/ makes/ models shall *not* be considered.

12.3.4 Evaluation of Conformity to Commercial and Other Clauses

Bidder must comply with all the Commercial and other clauses of the Tender Document as per submissions in Form 5. The Procuring Entity shall also evaluate the commercial conditions quoted by Bidder to confirm that all terms and conditions stipulated in the Tender Document have been accepted without substantive omissions/ reservations/ exception/ deviation by the Bidder. Deviations from or objections or reservations to critical provisions such as those concerning Governing laws and Jurisdiction (GCC Clause 3), Contractor's Obligations and Restrictions of its Rights (GCC Clause 5), Performance Bond/ Security (GCC Clause 5.8), Warranty/ Guarantee (GCC Clause 6.7), Force Majeure (GCC Clause 9.13), Taxes & Duties (GCC Clause 10.2) and Code of Integrity (GCC Clause 13) will be deemed to be a material deviation.

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12.3.5 Declaration of Techno-commercially Suitable Bidders and Opening of Financial Bids

Bids that succeed in the above techno-commercial evaluation shall be considered techno-commercially suitable, and financial evaluation shall be done only of such Bids. The list of such techno-commercially suitable bidders and a date/time and venue for the opening of their financial bids shall be declared on the Portal and individually to all participant bidders in accordance with ITB-clause 12.2.2 as per the type of Tender Processes.

12.4 Evaluation of Financial Bids and Ranking of Bids

12.4.1 Ranking of Financial Bids

- 1) Unless otherwise stipulated, evaluation of the financial bids shall be on the price criteria only. Financial Bids of all Techno-commercially suitable bids are evaluated and ranked to determine the lowest priced bidder.
- 2) Unless otherwise stipulated, the comparison of the responsive Bids shall be on total outgo from the Procuring Entity's pocket, to be paid to the contractor or any third party, including all elements of costs as per the terms of the proposed contract, on FOR/ FOT destination basis, duly delivered, commissioned, etc. as the case may be, including any taxes, duties, levies etc., freight, transit Insurance, loading/ unloading/ stacking, insurance etc.
- 3) Unless otherwise stipulated, if the Schedule of Requirements contains more than one schedule, the financial ranking of bids shall be done based on all schedules put together. The bid for a schedule shall not be considered if the complete requirements prescribed in that schedule are not included in the bid;
- 4) If any bidder offers conditional discounts/ rebates in his bid or suo motu discounts and rebates after the Bid Opening (techno-commercial or financial), such rebates/ discounts shall not be considered for ranking the offer. But if such a bidder does become L-1 without discounts/ rebates, such discounts/ rebates shall be availed and incorporated in the contracts;
- 5) Unless announced beforehand, the quoted price shall not be loaded based on deviations in the techno-commercial conditions. If it is so declared, such loading of the financial bid shall be done as per the relevant provisions;
- 6) As per policies of the Government, from time to time, the Procuring Entity reserves its option to give purchase preferences to eligible categories of Bidders as indicated in the Tender Document.
- 7) evaluation of Bids shall include and consider the following taxes/ duties, as per ITB-clause 6.3 above:

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- (a) in the case of Goods manufactured in India or Goods of foreign origin already located in India, GST & other similar duties, which shall be contractually payable, on the Goods if a contract is awarded on the bidder;
 - (b) The offers shall be evaluated based on the GST rate quoted by each bidder, and the same shall be used for determining the inter-se ranking. The Procuring Entity shall not be responsible for any misclassification of HSN Number or incorrect GST rate if quoted by the bidder. Any increase in GST rate due to misclassification of HSN number shall have to be absorbed by the supplier; and
 - (c) If GST is quoted extra, but with the provision that it shall be charged as applicable at the time of delivery, the offer shall be evaluated for comparison purposes by loading the maximum existing rate of GST for the product/ HSN code.
- 8) **Price Variation:** If the tenders have been invited on a variable price basis, the tenders shall be evaluated, compared, and ranked based on the position as prevailing on the last deadline for techno-commercial bid submission and not on any future date.
- 9) **Ambiguous Financial bid:** If the financial bid is ambiguous and leads to two equally valid total price amounts, it shall be rejected as nonresponsive.

12.4.2 Global Tender Enquiry (GTE, International Competitive Bidding)

If stipulated in the TIS/ AITB that this is a Global Tender Enquiry (International Competitive Bidding), the following additional aspects of the evaluation of the financial offer shall also apply:

1) Currency of Tender

In GTE tenders, if permitted in AITB, the bid price may be in foreign currencies, except for expenditure incurred in India (including incidental Works/ Services rendered in India and agency commission, if any) which should be stated in Indian Rupees.

2) Evaluation of Offers

- (a) For financial evaluation, all Bids shall be converted to Indian Rupees based on the "Bill for Collection (BC) selling" exchange rate on the last deadline for the bid submission (Techno-commercial offer) from a source as specified (State Bank of India, if not so specified) in the Tender Documents. The offers would be compared based on the principle of the total outgo from Procuring Entity's pockets, including all applicable taxes and duties (Customs duty, IGST, and GST Cess). For bids with Letter of Credit (LC) payment, the likely LC charges (as ascertained from the Procuring Entity's bankers) should also be loaded. Import of Goods or services or both attract integrated tax (IGST). The IGST rate and GST cess shall be applicable on the 'Custom Assessable Value' plus the 'Basic Customs duty applicable thereon'.

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- (b) The bidders are to quote prices based on FOB, FAS, CIF, or DDP basis as stipulated in the Tender Document. The terms FOB, FAS, CIF, DDP etc., shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris.
- (c) If there are no domestic bidders, a comparison of foreign offers can be made based on CIF/ DDP/ landed costs since the rest would be the same for all bidders, provided the port of entry is the same for all bidders.
- (d) Unless otherwise stipulated, foreign bidders shall indicate the break-up of prices for freight, insurance, customs duty, port handling charges, clearing agency charges, related ITC (HS) code, IGST/ GST cess, related HSN code, as relevant to quoted price basis.
- (e) If both Indian and foreign bidders have quoted in the tender, the comparison of the offers would be done based on FOR/ FOT destination, including all applicable taxes and duties (on the principle of the total outgo from Procuring Entity's pockets). In the case of FAS/ FOB offers, the freight and insurance shall be (after ascertaining, if not quoted) added to build up the CIF cost. For arriving at the DDP cost, notional one percent shall be added over and above CIF price as port handling charges and adding thereon customs duty and clearing agency charges. To bring DDP cost to FOR/ FOT destination cost, GST, GST Cess, as applicable on the date of opening of the tender, and inland freight would be added. The FOR/ FOT destination price for domestic offers may be calculated as in indigenous tenders.

12.4.3 Evaluation Process in Tender cum e-Reverse Auction

If it is specified in TIS/ AITB that this is a Tender cum e-Reverse Auction Tender Process then, the e-Reverse Auction process shall be mandatorily conducted on the same portal after the financial bid opening (declaration of L-1 landed price/ s), provided the number of valid bidders is not less than the stipulated number (3 if not specified). Unless otherwise stipulated following procedure shall be followed:

1) Shortlisting of bidders eligible to participate in e-Reverse Auction:

- (a) The bids disallowed from participating in the Reverse Auction(e-RA) shall be the highest bidder(s) in the tabulation of prices in the financial bid. If the highest bidders quote the same rate, the Price Offer received last, as per the time log of the Portal, shall be removed first, on the principle of last in first out by the system.
- (b) If the number of valid bidders is less than the minimum stipulated number (or 3 if not specified), a Reverse auction shall not be conducted, and the financial bids shall be evaluated. In the case of 4 to 6 valid bidders lowest three (3) bidders shall be allowed to participate in the reverse auction. In the case of more than 6 valid bidders, only 50% of the bidders (rounded up to next integer) shall be allowed to participate.

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- (c) However, if MSE bidders or Class-I Local suppliers under the Make in India policy do not come under the above criteria, but their prices in financial bids are within the policy's margin of preference, they shall be allowed to participate. Such bidders would be over and above the short-list mentioned above.

2) Reverse Auction Process (RAP)

- (a) Upon opening the financial bids, a reverse auction platform shall be created. The reverse auction shall start within the specified period (two hours if not specified) of the bid. There shall be no participation fees for the e-Reverse auction.
 - (b) Unless modified by TIA, L-1 landed price in financial bid (as per the calculation schema based on the Tender Document evaluation criteria) shall be the start bid price on which the auction shall be initiated.
 - (c) The TIA shall specify the decrement value before starting the e-Reverse Auction (or, if not specified, 0.5% of the start bid price rounded off to the next unit, tens, hundreds, thousands etc., with a minimum of. INR 1). The reduction shall have to be made as per decrement value or in multiple thereof.
 - (d) An initial period of the reverse auction shall be as stipulated (or two hours if not specified). All times and periods are as per server time-stamp. There shall be auto extensions of time by specified minutes (ten minutes if not specified) in case of any reduction recorded in the last auto-extension period. The Maximum number of auto extensions shall be as stipulated (or 50 if not stipulated).
 - (e) In case of service disruption at the service provider's end during the reverse auction, the reverse auction process shall start all over again, with the last recorded lowest price of prematurely ended RAP as the 'Start bid' price. The prices quoted in the prematurely ended RAP shall be binding on all the bidders for consideration if the restarted process does not trigger within the stipulated time (or by 5.00 pm on the same day, if not stipulated). Disruption and restarting of RAP shall be intimated to all the bidders through system/ SMS/ e-mail through the e-procurement portal.
- 3) Bidders must submit only the landed price in the reverse auction, and only the item-wise L-1 price shall be displayed without disclosing the number of bids and names of the bidders. The landed price would not be the same for two bidders, even if any bidder makes such an attempt. While evaluating the bids, the exchange rate captured by the e-procurement system shall be considered for converting foreign currency into Indian Rupees.
- 4) On the auction's closing time expiry, the bid history showing all the last valid bids offered along with the name of the bidders shall be published. All bidders shall have the facility to see and get a print of the same for their record.

- 5) All electronic bids submitted during the reverse auction process shall be legally binding on the bidder. Only the chronologically last bid submitted by Bidder until the end of the auction shall be considered the valid financial bid of Bidder, and consideration of the same for entering into a contract by the Procuring Entity shall bind on the bidder. If a bidder does not submit his bid in the Reverse Auction, the price quoted in the financial bid shall be considered the valid price of that bidder. The status of Bidder (L-1, L-2 etc.) shall be evaluated considering either the bid price submitted in Reverse auction or the Price quoted in the financial bid, whichever is lower.
- 6) The successful L-1 bidder, after the reverse auction, has to upload within a stipulated period (within 2 working days, if not specified) the breakup of Landed Prices in the shortfall documents, at which the contract shall be awarded. While giving the breakup, the Bidder shall include the same taxes and duties as quoted while submitting the financial bid. If the L-1 bidder fails to submit the breakup of landed price within the stipulated period, the Procuring Entity shall place an order based on the breakup of the financial bid submitted by Bidder, and the same shall be binding on the bidder.

7) Purchase Preference

Short-listed bidders, eligible for any purchase preference policy as per the Tender Document, shall get an opportunity to match the L-1 prices concluded after the reverse auction if their final prices in Reverse Auction fall within the permitted percentage.

12.4.4 Cartel Formation/ Pool Rates

- 1) Unless the Procuring Entity decides this to be a case of Cartel/ Pool Rates, if more than one bidder quote the same total evaluated price, then the Procuring Entity reserves its right to distribute unequal quantities among the bidders - excluding one or more bidders, based on considerations like performance/ financial capabilities, the distance of destination godowns from the location of the factories, production capacities, any extra features/ benefits offered etc.
- 2) If Procuring Entity decides this to be a case of Cartel/ Pool Rates, leading to "Appreciable Adverse Effect on Competition" (AAEC) as identified in Competition Act, 2002, as amended from time to time, it reserves its rights to:
 - (a) order any quantity on any one or more bidders without assigning any reason thereof.And/ or
 - (b) consider it as a violation of the Code of Integrity and reject the bid(s) as nonresponsive in addition to other punitive actions provided in this regard in the Tender Document. In addition to such remedies, the Procuring Entity also reserves the right to refer the matter to the Competition Commission of India (CCI) for obtaining necessary relief. In addition, the attention of the bidders is drawn to Chapter VI of the "The Competition Act 2002", which deals with Penalties. Such

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actions shall be in addition to other rights and remedies available to the Procuring Entity under the contract and Law.

12.4.5 Reasonableness of Rates Received

Procuring Entity shall evaluate whether the rates received in the Bids in the zone of consideration are reasonable. If the rates received are considered abnormally low or unreasonably high, it reserves its right to take action as per the following sub-clauses, or as per ITB-clause 2.3, reject any or all Bids; abandon/ cancel the Tender process and issue another tender for the identical or similar Goods.

12.4.6 Consideration of Abnormally Low Bids

An Abnormally Low bid is one in which the bid price, in combination with other elements of the bid, appears so low that it raises substantive concerns as to the Bidder's capability to perform the contract at the offered price. Procuring Entity shall in such cases seek written clarifications from the Bidder, including detailed price analyses of its bid price concerning scope, schedule, allocation of risks and responsibilities, and any other requirements of the Tender Document. If, after evaluating the price analyses, procuring entity determines that Bidder has substantively failed to demonstrate its capability to deliver the contract at the offered price, the Procuring Entity shall reject the bid/ proposal, and evaluation shall proceed with the next ranked bidder.

12.4.7 Price Negotiation

Usually, there shall be no price negotiations. However, the Procuring Entity reserves its right to negotiate with the lowest acceptable bidder (L-1), who is techno-commercially suitable for supplying bulk quantity and on whom the contract would have been placed but for the decision to negotiate. This right shall also apply to post eReverse Auction process.

13. Award of Contract

13.1 The Procuring Entity's Rights

13.1.1 Right to Vary Quantities at the Time of Award

At the time of contract award, the Procuring Entity reserves the right to increase or decrease, without any change in the unit prices or other terms and conditions of the bid and the Tender Document, the quantity of Goods originally stipulated in Section VI: Schedule of Requirements, provided this increase/ decrease does not exceed 20 (Twenty) percent of tendered quantity (or any other percentage indicated in the Tender Document).

13.1.2 Parallel Contracts or Splitting of Award

The Procuring Entity reserves its right to split the quantities and conclude Parallel contracts with more than one bidder (for the same tender) in the following circumstances:

2 By Asmita Asmita Soma Sen Ray Dr. Anil Kumar Dr. Anil Kumar Dr. Anil Kumar Dr. Anil Kumar Dr. Anil Kumar

- 1) Unless otherwise stipulated in TIS/ AITB, there shall be no parallel orders or splitting quantities among more than one Bidders.
- 2) After due processing, if it is discovered that the quantity to be ordered is far more than what L-1 alone is capable of supplying and there was no prior stipulation in the Tender Document for parallel contracts, then it reserves its rights to distribute the quantity being finally ordered, among the other bidders by counter offering the L-1 rate to willing L-2 or higher bidders, in a transparent manner to avail full assessed capacities of lower-priced bidders first, before inviting higher-priced bidders. The decision of Procuring Entity shall be final.
- 3) However, if the Tender Document stipulates such parallel contracts due to the critical/ strategic/ specific nature of the supplies/ Goods, the manner of deciding relative share of the lowest bidder (L-1) and the rest shall be clearly defined, along with the minimum number of Bidders sought (subject to availability of suitable bids meeting the requirements) for the contract. In such cases, the bidders should not quote for less than 25% of the tendered quantity; otherwise, their offer shall be rejected as nonresponsive. Unless otherwise stipulated in the AITB, in case of splitting in two and three, the ratio of 70:30; 50:30:20, respectively shall be used. These ratios are approximate, and the Procuring Entity reserves its right to marginally vary quantities to suit capacity/ past performance of the bidder/ unit loads of packing or transportation/ relative ranking of the bids/ delivery period offered/ existing load of Bidder and other similar factors affecting smooth supplies as per requirements.

13.1.3 Additional Conditions for Rate Contracts

If stipulated expressly in the TIS/ AITB that this is a Tender Process to enter into "Rate Contract(s)" for the supply of Goods, then the following additional conditions shall be applicable:

- 1) The conditions governing the resultant Rate Contract would be as per G.C.C-clause 6.8. The "Fall Clause" as described in the G.C.C-clause 10.1.6 shall be expressly applicable in Rate Contracts.
- 2) Unless otherwise specified, the currency of a Rate Contract would be for one year.
- 3) **Parallel Rate Contracts:** Procuring Entity reserves the right to conclude more than one rate contract for the same Schedule/ Goods. The procedure for negotiation and counter-offering for concluding parallel rate contracts would be as follows.
 - (a) Initially, the rate contract would be awarded to the L-1 Bidder. Then the price of L-1 shall be counter-offered to the higher quoting responsive Bidders (under intimation to L-1), asking them to send their revised Bids online on the e-procurement portal to be opened at a specified place, date, and time (as per the standard procedure). L-

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1 Bidder would be specifically informed that it may, if it so desires, reduce its price and send its revised Bid accordingly. The Bidders, who accept the counter-offered rate or rate lower than that, would be awarded parallel rate contracts. If L-1 Bidder lowers its rate in its revised offer, the same would also be accepted with effect from that date, and its rate contract amended accordingly.

- (b) In the case where parallel rate contracts are necessary, but even the lowest responsive Bidder (L-1) price is not reasonable. In that case, price negotiation may be conducted with L-1 Bidder in the first instance. If the L1 Bidder agrees to bring down the price to the desired level, a rate contract would be concluded with it, and parallel rate contracts would be concluded as per the sub-clause above. If, however, L1 Bidder does not agree to reduce its price in the first instance itself, then the price, which has been decided as reasonable, would be counter-offered to all the higher quoting responsive Bidders (including L-1) for further action on the above lines.
- (c) All such parallel rate contracts would be released transparently and simultaneously.

- 4) The quantities mentioned in the tender in Section- I (N.I.T.) and Section-VI (Schedule of Requirements) are indicative without any commitment on a rate-contract basis, as detailed in G.C.C-clause 6.8.

13.2 Letter of Award (Acceptance - LoA) and Signing of Contract

13.2.1 Selection of Successful Bidder(s)

The Procuring Entity shall award the contract to the Bidder(s) whose bid(s) is Techno-commercially suitable and bid price(s) is lowest and reasonable, as per evaluation criteria detailed in the Tender Document.

13.2.2 Verification of Original Documents

Before issuing a Letter of Award (LoA) to the successful Bidder(s), the Procuring Entity may, at its discretion, ask Bidder to submit online for verification the originals of all such documents whose scanned copies were submitted online along with the Technical bid. If so decided, the photocopies of such self-certified documents shall be verified and signed by the competent officer and kept in the records as part of the contract agreement. If the Bidder fails to provide such originals or in case of substantive discrepancies in such documents, it shall be construed as a violation of the Code of Integrity. Such bid shall be liable to be rejected as nonresponsive in addition to other punitive actions in the Tender Document. The evaluation of Bids shall proceed with the subsequent ranked offers.

13.2.3 Letter of Award (LoA)

- 1) The Bidder, whose bid has been accepted and documents verified (at the discretion of Procuring Entity), shall be notified of the award by the Procuring Entity before the expiration of the Bid-Validity period by written or electronic means. This notification

(hereinafter and in the Conditions of Contract called the "Letter of Award - LoA") shall state the sum (hereinafter and in the contract called the "Contract Price") that the Procuring Entity shall pay the contractor in consideration of the supply of the Goods. The Letter of Award (LoA) shall constitute the legal formation of the contract, subject only to the furnishing of performance security as per the provisions of the sub-clause below. The Procuring Entity, at its discretion, may directly issue the contract subject only to the furnishing of performance security, skipping the issue of LoA.

13.2.4 Performance Security

- 1) Within 14 days (or any other period stipulated in AITB) of receipt of the Letter of Award (LoA, or the contract if LoA has been skipped), performance Security as per details in GCC-5.8 shall be submitted by the contractor to the Procuring Entity.
- 2) If the contractor, having been called upon by the Procuring Entity to furnish Performance Security, fails to do so within the specified period, it shall be lawful for the Procuring Entity at its discretion to annul the award and enforce Bid Securing Declaration (in lieu of forfeiture of the Bid Security), besides taking any other administrative punitive action like 'Removal from List of Registered Suppliers' etc.
- 3) If the bidder, whose bid is the lowest evaluated bid withdraws or whose bid has been accepted, fails to sign the procurement contract as may be required or fails to provide the security as may be required for the performance of the contract or otherwise withdraws from the procurement process, the Procuring Entity shall cancel the procurement process. If the Procuring Entity is satisfied that it is not a case of cartelization and that the integrity of the procurement process has been maintained may offer the next successful bidder an opportunity to match the financial bid of the first successful bidder, and if the offer is accepted, award the contract to the next successful bidder at the price bid of the first successful bidder.

13.2.5 Signing of Contract

- 1) Within seven working days of receiving performance security, the Procuring Entity shall send the contract form (as per Format 1: Contract Form along with sub-formats) duly completed and signed, in duplicate, by registered/ speed post or by suitable digital means to the successful Bidder.
- 2) If so asked by the Procuring Entity, the successful Bidder shall return the original copy of the contract, duly signed and dated, within seven days from the date of receipt of the contract, to the Procuring Entity by registered/ speed post or by a suitable digital means.
- 3) Otherwise, the contract shall be taken to be legally effective from the date of its signing. The Contractor may point out to the Procuring Entity, in writing/ electronically, any anomalies noticed in the contract within seven days of its receipt.

[66] Procuring Organisation

2 By  Dipika Soma Sen Roy    Jan Mahmud 

13.2.6 Expiry of bid Declaring Declarations

Upon the furnishing by the successful Bidder of the Performance Security, the Procuring Entity shall promptly notify the other Bidders that their Bids have been unsuccessful. The Bid Securing Declarations of unsuccessful bidders shall expire on receipt of this notification by them, in terms of ITB-clause 9.4 above. The bid-Securing Declaration of the successful bidder shall expire when Bidder has furnished the required Performance Security and signed the Agreement.

13.2.7 Publication of Tender Result

The name and address of the successful Bidder(s) receiving the contract(s) shall be published in the Portal and notice board/ bulletin/website of the Procuring Entity.

14. Grievance Redressal/ Complaint Procedure

- 1) Bidder has the right to submit a complaint or seek de-briefing regarding the rejection of his bid, in writing or electronically, within 10 days of declaration of techno-commercial or financial evaluation results. The complaint shall be addressed to the Head of Procurement.
- 2) Within 5 working days of receipt of the complaint, the Tender Inviting Officer shall acknowledge the receipt in writing to the complainant indicating that it has been received, and the response shall be sent in due course after a detailed examination.
- 3) The Tender Inviting Officer shall convey the final decision to the complainant within 15 days of receiving the complaint. No response shall be given regarding the confidential process of evaluating bids and awarding the contract before the award is notified, although the complaint shall be kept in view during such a process. However, no response shall be given regarding the following topics explicitly excluded from such complaint process:
 - (a) Only a bidder who has participated in the concerned Tender Process, i.e., pre-qualification, bidder registration or bidding, as the case may be, can make such representation.
 - (b) Only a directly affected bidder can represent in this regard.
 - (i) In case of pre-qualification bid has been evaluated before the bidding of Technical/ financial bids, an application for review concerning the technical/ financial bid may be filed only by a bidder who has qualified in pre-qualification bid;
 - (ii) In case a technical bid has been evaluated before the opening of the financial bid, an application for review concerning the financial bid may be filed only by a bidder whose technical bid is found to be acceptable.

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- (c) Following decisions of the Procuring Entity shall not be subject to review:
- (i) Determination of the need for procurement.
 - (ii) Complaints against specifications except under the premise that they are either vague or too specific to limit competition
 - (iii) Selection of the mode of procurement or bidding system;
 - (iv) Choice of the selection procedure.
 - (v) Provisions limiting the participation of bidders in the Tender Process, in terms of policies of the Government
 - (vi) Provisions regarding purchase preferences to specific categories of bidders in terms of policies of the Government
 - (vii) The decision to enter into negotiations with the L-1 bidder; and
 - (viii) Cancellation of the Tender Process except where it is intended to subsequently re-tender the same Goods.

4) Independent External Monitors (IEMs), Name and Contact Details:

- (a) Sh. Ajay Kumar Lal, IRAS (Retd.), DDA, HIG, Block 3A/101 A, Motia Khan (Near Jhandewalan Temple), D.B. Gupta Road, New Delhi-110015
(Email: ajay_k_lal@yahoo.com)
- (b) Sh. Pavan Kumar Jain, IDSE (Retd.), A-402, Shree Ganesh Apartments, Plot No. 12B, Sector-7 Dwarka, New Delhi-110075 (Email: mespkj@gmail.com)

15. Code of Integrity in Public Procurement, Misdemeanours and Penalties:

Procuring authorities, bidders, suppliers, contractors, and consultants should observe the highest standard of integrity and not indulge in prohibited practices or other misdemeanours, either directly or indirectly, at any stage during the Tender Process or during the execution of resultant contracts. GCC-clause 13 (including the penalties prescribed therein) shall be considered to be part of this clause of ITB (even though it is not being reproduced here for the sake of brevity) and shall apply mutadis mutandis during the pre-award tender process.

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2 By   Soma Sen Ray     

Section III: Appendix to Instructions to Bidders (AITB)

Document No. CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

(Ref ITB-clause 1.4)

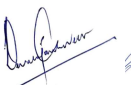
Note for Bidders: Following clauses (in column 1), wherever these appear in ITB shall be taken to be negated or additional provision be added to, or existing provisions be altered as per column 2. Whenever there is any conflict between the provision in the ITB and that in the AITB, the provision contained in the AITB shall prevail.

Column 1 ITB clauses	Column 2 To be read as
ITB 3, 4	Bidders - Eligibility and Preferential Policies
ITB 3.2	All classes of bidders (Class-I, Class-II and Non-local suppliers) are eligible. Purchase preference will be given to "Make in India"
ITB 4.1	Not mandatory
ITB 4.3.2	As admissible under rules of Govt. of India
ITB 5 to 6	Schedule of Requirements, Bid Prices, Taxes and Duties
ITB 5.2	Total all-inclusive offer for all the items mentioned in Schedule of Requirement and BOQ shall be used to determine
ITB 6.1.3	Nil
ITB 6.1.6	It is permitted to quote in different currencies viz., Indian Rupee (INR), US Dollar(USD), Pound Sterling(GBP), EURO(EUR) and Japanese Yen(JPY). However, Bidder shall quote either in INR or any one of the above said Foreign Currencies. In addition, all the required Taxes / any other statutory expenses shall be quoted only in Indian Rupee. For evaluation, all quoted prices shall be converted into Indian Rupees as per the procedure mentioned in ITB-clause12.4.2
ITB 6.2	Price Variation Clause is not applicable
ITB 6.2.2	Exchange Rate Variation: Not Applicable
ITB 9 to 10	Downloading, Preparation, Submission and Opening of Bids
ITB 9.1.1	English
ITB 9.1.6	Conditional offers, alternative offers, multiple bids by a bidder shall not be considered.
ITB 12 Evaluation of Bids and Award of Contract	

Column 1 ITB clauses	Column 2 To be read as																																	
ITB 12.2.1	The Purchaser may waive any minor informality, nonconformity, or irregularity in a bid that does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.																																	
ITB 12.2.2	TWO bid two cover																																	
ITB 12.3.1, 12.3.2	None																																	
ITB 12.4.1-1)	Financial Bids are to be ranked on a basis of price criteria.																																	
ITB 12.4.1-2)	Applicable as per ITB																																	
ITB 12.4.2	Global Tender Enquiry																																	
ITB 12.4.3	<table><tr><th>Parameter</th><th>Value</th><th>Default in Text</th></tr><tr><td>Minimum valid bids for e-RA</td><td></td><td>3</td></tr><tr><td>Minimum Bidder for Elimination</td><td></td><td>7</td></tr><tr><td>Number of Bidders to Eliminate</td><td></td><td>1</td></tr><tr><td>Start time of e-RA after Financial bid opening</td><td></td><td>2 Hrs</td></tr><tr><td>Decrement Value (%age of L-1) and rounding off</td><td></td><td>0.5%</td></tr><tr><td>The initial period of e-RA</td><td></td><td>2 Hrs</td></tr><tr><td>Period of Auto-extension</td><td></td><td>10 mins</td></tr><tr><td>Number of Extension required</td><td></td><td>25</td></tr><tr><td>End of trigger period in case of technical glitches</td><td></td><td>5 P.M. same day</td></tr><tr><td>Time for uploading results after the end of RA</td><td></td><td>2 days</td></tr></table>	Parameter	Value	Default in Text	Minimum valid bids for e-RA		3	Minimum Bidder for Elimination		7	Number of Bidders to Eliminate		1	Start time of e-RA after Financial bid opening		2 Hrs	Decrement Value (%age of L-1) and rounding off		0.5%	The initial period of e-RA		2 Hrs	Period of Auto-extension		10 mins	Number of Extension required		25	End of trigger period in case of technical glitches		5 P.M. same day	Time for uploading results after the end of RA		2 days
Parameter	Value	Default in Text																																
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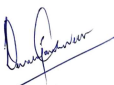








Column 1 ITB clauses	Column 2 To be read as
ITB 13.1.3	Not Applicable
ITB 13.2.4	5%

   Sonu Sen Ray     

Section IV: General Conditions of Contract (GCC)

1. General

1.1 Tenets of Interpretation

Unless where the context requires otherwise, throughout the contract:

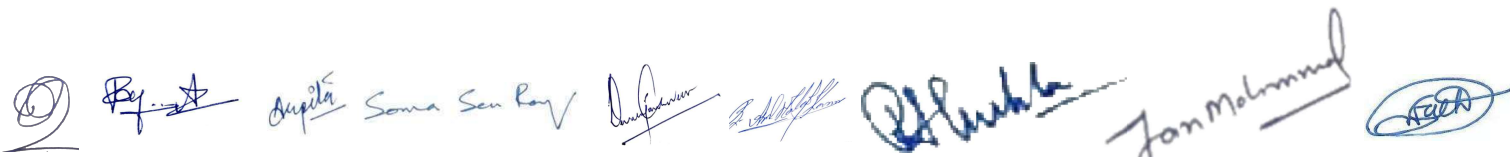
- 1) The heading of these conditions shall not affect the interpretation or construction thereof.
- 2) Writing or written includes matter either whole or in part, in digital communications, manuscript, typewritten, lithographed, cyclostyled, photographed, or printed under or over signature or seal or digitally acceptable authentication, as the case may be.
- 3) Words in the singular include the plural and vice-versa.
- 4) Words importing the masculine gender shall be taken to include other genders, and words importing persons shall include any company or association or body of individuals, whether incorporated or not.
- 5) Terms and expression not herein defined shall have the meanings assigned to them in the contract Act, 1872 (as amended) or the Sale of Goods Act, 1930 (as amended) or the General Clauses Act, 1897 (as amended) or of INCOTERMS, (current edition published by the International Chamber of Commerce, Paris) as the case may be.
- 6) Any reference to 'Goods' shall be deemed to include the incidental Works/ Services also.
- 7) Any generic reference to GCC shall also imply a reference to SCC as well.
- 8) In case of conflict, provisions of SCC shall prevail over those in GCC.
- 9) Any reference to 'Contract' shall be deemed to include all other documents (inter-alia GCC, SCC) as described in GCC-clause 2.5.
- 10) Any reference to any legal Act, Government Policies or orders shall be deemed to include all amendments to such instruments, from time to time, till date.
- 11) GCC-clause 5.10 (Book Examination clause), GCC-clause 6.5 (Option Quantity clause), GCC-clause 10.1.6 (Fall clause) shall not apply unless invoked explicitly in the contract. Nevertheless, Fall Clause (GCC-clause 10.1.6) shall be expressly applicable in the case of Rate Contract (Refer SCC-clause 6.8).

1.2 Definitions

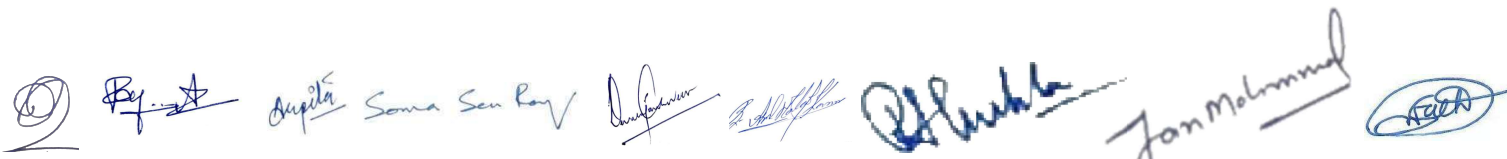
In the contract, unless the context otherwise requires:

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- 1) "Agent" is a person employed to do any act for another or represent another in dealings with a third person. In the context of public procurement, an Agent is a representative participating in the Tender Process or Execution of a Contract for and on behalf of its principals.
- 2) "Allied Firm" are all business entities that are within the 'controlling ownership interest' (ownership of or entitlement to more than twenty-five percent of the company's shares or capital or profits) or 'control' (including the right to appoint a majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholder agreements or voting agreements) of the principal firm acting alone or together or through one or more juridical persons. All successor firms or assigns of the principal firm shall be considered allied firms.
- 3) "bid" (including the term 'tender', 'offer', 'quotation' or 'proposal' in specific contexts) means an offer to supply goods, services or execution of works made as per the terms and conditions set out in a document inviting such offers.
- 4) "Bidder" (including the term 'Bidder', 'consultant' or 'service provider' in specific contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated herein before, including any agency branch or office controlled by such person, participating in a Tender Process.
- 5) "Bill of Quantities" (including the term Price Schedule or BOQ) means the priced and completed Bill of Quantities forming part of the bid.
- 6) "Commercial Bank" means a bank, defined as a scheduled bank under section 2(e) of the Reserve Bank of India Act, 1934.
- 7) "Consignee" means the person to whom the goods are required to be delivered as stipulated in the contract. A contract may provide the goods to be delivered to an interim consignee for further despatch to the ultimate consignee.
- 8) "Contract" (including the terms 'Purchase Order' or 'Supply Order' or 'Withdrawal Order' or 'Work Order' or 'Consultancy Contract' or 'Contract for Services', 'rate contract' or 'framework contract' or 'Letter of Award – LoA' (letter or memorandum communicating to the contractor the acceptance of his bid) or 'Agreement' or a 'repeat order' accepted/ acted upon by the contractor or a 'formal agreement', under specific contexts), means a formal legal agreement in writing relating to the subject matter of procurement, entered into between the Procuring Entity and the contractor on mutually acceptable terms and conditions and which are in compliance with all the relevant provisions of the laws of the country;

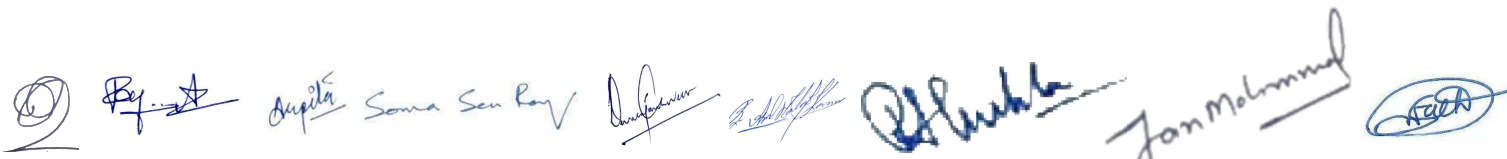
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- 9) "Contractor" (including the terms 'Supplier' or 'Service Provider' or 'Consultant' or 'Firm' or 'Vendor' or 'Manufacturer' or 'Successful Bidder' under specific contexts) means the person, firm, company, or a Joint Venture with whom the contract is entered into and shall be deemed to include the contractor's successors (approved by the Procuring Entity), agents, subcontractor, representatives, heirs, executors, and administrators as the case may be unless excluded by the terms of the contract.;
- 10) "Day", "Month", "Year" shall mean calendar day/ month or year (unless reference to financial year is clear from the context).
- 11) "Drawing" means the drawing or drawings stipulated in or annexed to the Specifications or the Tender Document/ Contract;
- 12) "General Conditions" means the General Conditions of Contract, also referred to as GCC.
- 13) "Goods" (including the terms 'Stores', 'Material(s)' in specific contexts) includes all articles, material, commodity, livestock, medicines, furniture, fixtures, raw material, consumables, spare parts, instruments, machinery, equipment, industrial plant, vehicles, aircrafts, ships, railway rolling stock assemblies, sub-assemblies, accessories, a group of machines comprising an integrated production process or such other categories of goods or intangible, products like technology transfer, licenses, patents or other intellectual properties (but excludes books, publications, periodicals, etc., for a library) under specific context), procured or otherwise acquired by a Procuring Entity. Any reference to Goods shall be deemed to include specific small work or some services that are incidental or consequential to the supply of such goods;
- 14) "Government" means the Central Government or a State Government as the case may be and includes agencies and Public Sector Enterprises under it, in specific contexts;
- 15) "Inspection" means activities such as measuring, examining, testing, analysing, gauging one or more characteristics of the goods or services or works, and comparing the same with the specified requirement to determine conformity.
- 16) "Inspecting Officer" means the person or organisation stipulated in the contract for inspection under the contract and includes his/ their authorised representative;
- 17) "Intellectual Property Rights" (IPR) means the rights of the intellectual property owner concerning a tangible or intangible possession/ exploitation of such property by others. It includes rights to Patents, Copyrights, Trademarks, Industrial Designs, Geographical indications (GI).
- 18) "Parties": The parties to the contract are the "Contractor" and the Procuring Entity, as defined in this clause;



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- 19)** “Performance Security” (includes the terms ‘Security Deposit’ or ‘Performance Bond’ or ‘Performance Bank Guarantee’ or other specified financial instruments in specific contexts) means a monetary guarantee to be furnished by the successful Bidder or Contractor in the form prescribed for the due performance of the contract;
- 20)** “Place of Delivery” the delivery of the Goods shall be deemed to take place on delivery of the Goods, after approval by the Inspecting Officer (If provided in the contract) at following places as per the terms and conditions of the contract -
- (a) The consignee at his premises; or
 - (b) Where so provided, the interim consignee at his premises; or
 - (c) A carrier or other person named in the contract for transmission to the consignee:
or
 - (d) The consignee at the destination station in case of a contract stipulating for delivery of Goods at the destination station.
- 21)** “Procurement” or “public procurement” (or ‘Purchase’, or ‘Government Procurement/ Purchase’ including an award of Public-Private Partnership projects, in specific contexts) means the acquisition of Goods/ Services/ works by way of purchase, lease, license or otherwise, either using public funds or any other source of funds (e.g. grant, loans, gifts, private investment etc.) of goods, works or services or any combination thereof, by a Procuring Entity, whether directly or through an agency with which a contract for procurement services is entered into, but does not include any acquisition without consideration. The term “procure”/ “procured” or “purchase”/ “purchased” shall be construed accordingly;
- 22)** “The Procuring Entity” means the entity in The Procuring Organization procuring Goods or Works or Services;
- 23)** “Procurement Officer” means the officer signing the Letter of Award (LoA) and/or the contract on behalf of the Procuring Entity;
- 24)** “Service(s)” (including the term ‘Non-consultancy services’ or ‘Outsourcing of Services’ in specific contexts) are defined by exclusion as services that cannot be classified as Consultancy Services. Services (Non-consultancy) involve routine, repetitive physical, procedural, and non-intellectual outcomes for which quantum and performance standards can be tangibly identified and consistently applied and are bid and contracted on such basis but does not include the appointment of an individual made under any law, rules, regulations, or order issued in this behalf. Any reference to Services shall be deemed to include the supply of goods or performance of consultancy service or small works, which are incidental or consequential to such services;
- 25)** “Special Conditions” means Special Conditions of Contract, which override the General Conditions, also referred to as SCC.

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- 26) "Specification" or "Technical Specification" means the drawing/ document/ standard or any other details governing the construction, manufacture or supply of goods or performance of services that prescribes the requirement to which goods or services have to conform as per the contract.
- 27) "Signed" means ink signed or digitally signed with a valid Digital Signature as per IT Act 2000 (as amended from time to time). It also includes stamped, except in the case of Letter of Award or amendment thereof;
- 28) "Tender"; "Tender Document"; "Tender Enquiry" or "Tender Process": 'Tender Process' is the whole process from the publishing of the Tender Document till the resultant award of the contract. 'Tender Document' means the document (including all its sections, appendices, forms, formats, etc.) published by the Procuring Entity to invite bids in a Tender Process. The Tender Document and Tender Process may be generically referred to as "Tender" or "Tender Enquiry", which would be clear from context without ambiguity.
- 29) "Test" means such test as is prescribed by the particulars governing the construction, manufacture or supply of Goods as may be prescribed by the contract or considered necessary by the Inspecting Officer whether performed or made by the Inspecting Officer or any agency acting under the direction of the Inspecting Officer;
- 30) "Works" refer to any activity involving construction, fabrication, repair, overhaul, renovation, decoration, installation, erection, excavation, dredging, and so on, which make use of a combination of one or more of engineering design, architectural design, material and technology, labour, machinery, and equipment.

1.3 Document Conventions

All words and phrases defined in GCC-clause 1.2 are written as 'Capitalised word' and shall have the defined meaning. The rest of the words shall be as per grammar, inter-alia 'Goods' shall indicate definition as given in the GCC while 'goods' shall have usual dictionary meaning.

1.4 Abbreviations:

Abbreviation	Definition
AITB	Appendix to Instructions To Bidders
BOQ	Bill of Quantities (Excel sheet of Price Schedule)
BSD	Bid Securing Declaration
COAMC	Comprehensive and Annual Maintenance Contract
CFR	Cost and Freight (port of destination)

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Abbreviation	Definition
CGST	Central Goods and Services Tax
CIF	Cost, Insurance & Freight (port of destination)
CPPP	Central Public Procurement Portal
DAP	Delivered at Place (Destination)
DoE	Department of Expenditure
DP	Delivery Period
DPIIT	Department for Promotion of Industry and Internal Trade
DSC	Digital Signature Certificate
DWR	Doppler Weather Radar
e-RA	Electronic Reverse Auction
EFT/ NEFT	(National) Electronic Funds Transfer
ERV	Exchange Rate Variation
FAS	Free Alongside Ship (port of loading)
FDI	Foreign Direct investment
FOB	Free on Board (port of loading)
FOR	Free on Rail (named Station)
GCC	General Conditions of Contract
GeM	Government e-Marketplace
GRIR	Goods Receipt and Inspection Report
GST	Goods and Services Tax
GTE	Global Tender Enquiry (International Competitive Bidding)
HSN	Harmonized System of Nomenclature
IEM	Independent External Monitor
IPR	Intellectual Property Rights
INR / Rs.	Indian Rupee

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Abbreviation	Definition
ITB	Instructions To Bidders
ITC (HS)	Indian Tariff Classification (Harmonised System)
LoA	Letter of Award (Acceptance)
MII	Make in India
MSE	Micro and Small Enterprises
MSME	Micro, Small and Medium Enterprises
MSMED	MSME Development (Act)
NIT	Notice Inviting Tender
OEM	Original Equipment Manufacturer
PVC	Price Variation Clause
PAN	Permanent Account Number
PC	(Indian) Penal Code
PPD	Procurement Policy Division
PQB	Pre-Qualification Bidding
RAP	Reverse Auction (Process)
RCM	Reverse Charge Mechanism
SC	Scheduled Caste
SCC	Special Conditions of Contract
ST	Scheduled Tribe
TCS	Tax Collected at Source
TDS	Tax Deducted at Source
TIA	Tender Inviting Authority
TIS	Tender Information Summary

2. The Contract

2.1 Language of Contract

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Unless otherwise stipulated in SCC, the contract shall be written in the Official Language or English. All correspondence and other contract documents, which the parties exchange, shall also be written/ translated accordingly in that language. For purposes of interpretation of the contract, the English documents/ translation shall prevail.

2.2 The Entire Agreement

This Contract and its documents (referred to in GCC-clause 2.5 below) constitutes the entire agreement between the Procuring Entity and the contractor and supersedes all other communications, negotiations, and agreements (whether written or oral) of the Parties made before the date of this Contract. No agent or representative of either Party has the authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not outlined in this Contract.

2.3 Severability

If any provision or condition of this Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of this Contract.

2.4 Parties

The parties to the contract are the contractor and the Procuring Entity, as defined in GCC-clause 1.2 above and nominated in the contract.

2.5 Contract Documents and their Precedence

The following conditions and documents in indicated order of precedence (higher to lower) shall be considered an integral part of the contract, irrespective of whether these are not appended/ referred to in it. Any generic reference to 'Contract' shall imply reference to all these documents as well:

- 1) Valid and authorized Amendments issued to the contract.
- 2) the Agreement consisting of the initial paragraphs, recitals and other clauses set forth immediately before the GCC and including the formats annexed to it and signatures of Procuring Entity;
- 3) the Letter of Award (LoA)
- 4) Final written submissions made by the contractor during negotiations, if any;
- 5) the SCC
- 6) the GCC
- 7) the contractor's bid;

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8) any other document listed in the SCC as forming part of this Contract.

9) Integrity Pact if any

2.6 Modifications/ Amendments, Waivers and Forbearances

2.6.1 Modifications/ Amendments of Contract

- 1) If any of the contract provisions must be modified after the contract documents have been signed, the modifications shall be made in writing and signed by the Procuring Entity, and no modified provisions shall be applicable unless such modifications have been done. No variation in or modification of the contract terms shall be made except by a written amendment signed by the Procuring Entity. Requests for changes and modifications may be submitted in writing by the contractor to the Procuring Entity. At any time during the currency of the contract, the Procuring Entity may suo-moto or, on request from the contractor, by written order, amend the contract by making alterations and modifications within the general scope of the Contract.
- 2) If the contractor does not agree to the suo-moto modifications/ amendments made by the Procuring Entity, he shall convey his views within 14 days from the date of amendment/ modification. Otherwise, it shall be assumed that the contractor has consented to the amendment.
- 3) Any verbal or written arrangement abandoning, modifying, extending, reducing, or supplementing the contract or any of the terms thereof shall be deemed conditional and shall not be binding on the Procuring Entity unless and until the same is incorporated in a formal instrument and signed by the Procuring Entity, and till then the Procuring Entity shall have the right to repudiate such arrangements.

2.6.2 Waivers and Forbearances

The following shall apply concerning any waivers, forbearance, or similar action taken under this Contract:

- 1) Any waiver of a Procuring Entity's rights, powers, or remedies under this Contract must be in writing, dated, and signed by an authorized representative of the Procuring Entity granting such waiver and must specify the terms under which the waiver is being granted.
- 2) No relaxation, forbearance, delay, or indulgence by Procuring Entity in enforcing any of the terms and conditions of this Contract or granting of an extension of time by Procuring Entity to the contractor shall, in any way whatsoever, prejudice, affect, or restrict the rights of Procuring Entity under this Contract, neither shall any waiver by Procuring Entity of any breach of Contract operate as a waiver of any subsequent or continuing breach of Contract.

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3. Governing Laws and Jurisdiction

3.1 Governing Laws and Jurisdiction

- 1) This Contract, its meaning and interpretation, and the relation between the Parties shall be governed by the Laws of India for the time being in force.
- 2) Irrespective of the place of delivery, or the place of performance or the place of payments under the contract, the contract shall be deemed to have been made at the place from which the Letter of Award (LoA, or the contract Agreement, in the absence of LoA) has been issued. The courts of such a place shall alone have jurisdiction to decide any dispute arising out or in respect of the contract.

3.2 Changes in Laws and Regulations

Unless otherwise stipulated in the contract, if after the last deadline for the bid submission (Techno-commercial), any law, regulation, ordinance, order or bye-law having the force of law is enacted, promulgated, abrogated, or changed in India (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/ or the contract Price, then such Delivery Date and/ or Contract Price shall be correspondingly increased or decreased, to the extent that the contractor has thereby been affected in the performance of any of its obligations under the contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable.

4. Communications

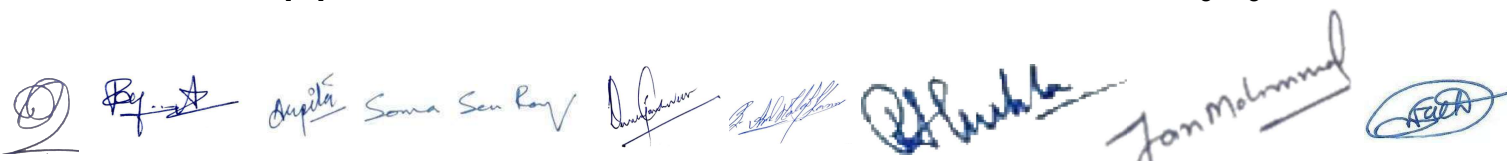
4.1 Communications

- 1) All communications under the contract shall be served by the parties on each other in writing, in the contract's language, and served in a manner customary and acceptable in business and commercial transactions.
- 2) The effective date of such communications shall be either the date when delivered to the recipient or the effective date mentioned explicitly in the communication, whichever is later.
- 3) No communication shall amount to an amendment of the terms and conditions of the contract, except a formal letter of amendment of the contract, so designated.
- 4) Such communications would be an instruction or a notification or an acceptance or a certificate from the Procuring Entity, or it would be a submission or a notification from the contractor. A notification or certificate which the contract requires must be communicated separately from other communications.

4.2 The person signing the Communications

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For all purposes of the contract, including arbitration, thereunder all communications to the other party shall be signed by:

- 1) The person who has signed the contract on behalf of the contractor shall sign all correspondences. A person signing communication in respect of the contract or purported to be on behalf of the contractor, without disclosing his authority to do so, shall be deemed to warrant that he has authority to bind the contractor. If it is discovered at any time that the person, so signing has no authority to do so, the Procuring Entity reserves its right to, without prejudice to any other right or remedy, to terminate the contract for default in terms of the contract and avail any or all the remedies thereunder and hold such person personally and/ or the contractor liable to the Procuring Entity for all costs and damages arising from such remedies.
- 2) Unless otherwise stipulated in the contract, the Procurement Officer signing the contract shall administer the contract and sign communications on behalf of the Procuring Entity. Interim or ultimate consignees; Inspecting Agency/ officers and the paying authorities mentioned in the contract shall also administer respective functions during Contract Execution.

4.3 Address of the parties for sending communications by the other party.

- 1) For all purposes of the contract, including arbitration, thereunder the address of parties to which the other party shall address all communications and notices shall be:
 - (a) The address of the contractor as mentioned in the contract unless the contractor has notified the change of address by a separate communication containing no other topic to the Procuring Entity. The Contractor shall be solely responsible for the consequence of an omission to notify a change of address in the manner aforesaid, and
 - (b) The address of the Procuring Entity shall be the address mentioned in the contract. The contractor shall also send additional copies to officers of the Procuring Entity presently dealing with the contract.
 - (c) In case of the communications from the contractor, copies of communications shall be marked to the Procurement Officer signing the contract, and as relevant also to Inspecting Agency/ Officer; interim/ ultimate consignee and paying authorities mentioned in the contract. Unless already stipulated in the contract before the contract's start, the Procuring Entity and the contractor shall notify each other if additional copies of communications are to be addressed to additional addresses.

5. Contractor's Obligations and restrictions on its Rights

5.1 Changes in Constitution/ financial stakes/ responsibilities of a Contract's Business

The Contractor must proactively keep the Procuring Entity informed of any changes in its constitution/ financial stakes/ responsibilities during the execution of the contract. Where the contractor is a partnership firm, the following restrictions shall apply to changes in the constitution during the execution of the contract:

- 1) a new partner shall not be introduced in the firm except with the previous consent in writing of the Procuring Entity, which shall be granted only upon execution of a written undertaking by the new partner to perform the contract and accept all liabilities incurred by the firm under the contract before the date of such undertaking.
- 2) On the death or retirement of any partner of the contractor firm before the complete performance of the contract, the Procuring Entity may, at his option, terminate the contract for default as per the Contract and avail any or all remedies thereunder.
- 3) If the contract is not terminated as provided in Sub-clause (2) above notwithstanding the retirement of a partner from the firm, that partner shall continue to be liable under the contract for acts of the firm until a copy of the public notice given by him under Section 32 of the Partnership Act, has been sent by him to the Procuring Entity in writing or electronically.

5.2 Obligation to Maintain Eligibility and Qualifications

- 1) The contract has been awarded to the contractor based on specific eligibility and qualification criteria. The Contractor is contractually bound to maintain such eligibility and qualifications during the execution of the contract. Any change which would vitiate the basis on which the contract was awarded to the contractor should be pro-actively brought to the notice of the Procuring Entity within 7 days of it coming to the Contractor's knowledge. These changes include but are not restricted to:**

(a) Change regarding declarations made by it in its bid in Form 1.2: Eligibility Declaration

5.3 Change in its qualification criteria submitted in its bid in Form 4: Qualification Criteria - Compliance and its sub-form(s).Restriction on Potential Conflict of Interests

Neither the contractor nor its Subcontractors nor the Personnel shall engage, either directly or indirectly, in any of the following activities:

- 1) during the term of this Contract, any business or professional activities in India that would conflict with the activities assigned to them under this Contract.**
- 2) after the termination of this Contract, such other activities as may be stipulated in the contract.**

5.4 Consequences of a breach of Obligations

Should the contractor or any of its partners or its Subcontractors or the Personnel commit a default or breach of GCC-clause 5.1 to 5.7, the Contractor shall remedy such breaches within

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21 days, keeping the Procuring Entity informed. However, at its discretion, the Procuring Entity shall be entitled, and it shall be lawful on his part, to treat it as a breach of contract and avail any or all remedies thereunder. The decision of the Procuring Entity as to any matter or thing concerning or arising out of GCC-clause 5.1 to 5.7 or on any question whether the contractor or any partner of the contractor firm has committed a default or breach of any of the conditions shall be final and binding on the contractor.

5.5 Assignment and Sub-contracting

- 1) the contractor shall not, save with the previous consent in writing of the Procuring Entity, sublet, transfer, or assign the contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever.
- 2) the contractor shall notify the Procuring Entity in writing all subcontracts awarded under the contract if not already stipulated in the contract. In its original bid or later, such notification shall not relieve the contractor from any of its liability or obligation under the terms and conditions of the contract. Subcontract shall be only for bought out items and incidental Works/ Services. Subcontracts must comply with and should not circumvent Contractor's compliance with its obligations under GCC-clause 5.1 to 5.7, based on which the contract was awarded to him.
- 3) If the Contractor sublets or assigns this contract or any part thereof without such permission, the Procuring Entity shall be entitled, and it shall be lawful on his part, to treat it as a breach of contract and avail any or all remedies thereunder.

5.6 Indemnities for breach of IPR Rights

- 1) the contractor shall indemnify and hold harmless, free of costs, the Procuring Entity and its employees and officers from and against all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which may arise in respect of the Goods provided by the contractor under this Contract, as a result of any infringement or alleged infringement of any patent, utility model, registered design, copyright, or other Intellectual Proprietary Rights (IPR) or trademarks, registered or otherwise existing on the date of the contract arising out of or in connection with:
 - (a) any design, data, drawing, specification, or other documents or Goods provided or designed by the contractor for or on behalf of the Procuring Entity.
 - (b) The sale by the Procuring Entity in any country of the products produced by the Goods supplied by the contractor, and
 - (c) The installation of the Goods by the contractor or the use of the Goods at the Procuring Entity's Site

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- 2) Such indemnity shall not cover any use of the Goods or any part thereof or any products produced thereby:
 - (a) other than for the purpose indicated by or to be reasonably inferred from the contract
 - (b) in association or combination with any other equipment, plant, or materials not supplied by the contractor.
- 3) If any proceedings are brought, or any claim is made against the Procuring Entity arising out of the matters referred above, the Procuring Entity shall promptly give the contractor a notice thereof. At its own expense and in the Procuring Entity's name, the contractor may conduct such proceedings and negotiations to settle any such proceedings or claim, keeping the Procuring Entity informed.
- 4) If the contractor fails to notify the Procuring Entity within twenty-eight (28) days after receiving such notice that it intends to conduct any such proceedings or claim, then the Procuring Entity shall be free to conduct the same on its behalf at the risk and cost to the contractor.
- 5) At the contractor's request, the Procuring Entity shall afford all available assistance to the contractor in conducting such proceedings or claim and shall be reimbursed by the contractor for all reasonable expenses incurred in so doing.

5.7 Confidentiality, Secrecy and IPR Rights

5.7.1 IPR Rights

All deliverables, outputs, plans, drawings, specifications, designs, reports, and other documents and software submitted by the contractor under this Contract shall become and remain the property of the Procuring Entity and subject to laws of copyright and must not be shared with third parties or reproduced, whether in whole or part, without the Procuring Entity's prior written consent. The contractor shall, not later than upon termination or expiration of this Contract, deliver all such documents and software to the Procuring Entity, together with a detailed inventory thereof. The contractor may retain a copy of such documents and software but shall not use it for any commercial purpose.

5.7.2 Confidentiality

All documents, drawings, samples, data, associated correspondence or other information furnished by or on behalf of the Procuring Entity to the contractor, in connection with the contract, whether such information has been furnished before, during or following completion or termination of the contract, are confidential and shall remain the property of the Procuring Entity and shall not, without the prior written consent of Procuring Entity neither be divulged by the contractor to any third party, nor be used by him for any purpose other than the design, procurement, or other services and work required for the performance

2 By [Signature] Angika Soma Sen Ray [Signature] [Signature] [Signature] Jon Mohammad [Signature]

of this Contract. If advised by the Procuring Entity, all copies of all such information in original shall be returned on completion of the contractor's performance and obligations under this contract.

5.7.3 Secrecy

If The Contract declares the subject matter of this Contract as coming under the Official Secrets Act, 1923 or if the contract is marked as "Secret", the contractor shall take all reasonable steps necessary to ensure that all persons employed in any connection with the contract, have acknowledged their responsibilities and penalties for violations under the Official Secrets Act and any regulations framed thereunder.

5.7.4 Obligations of the contractor

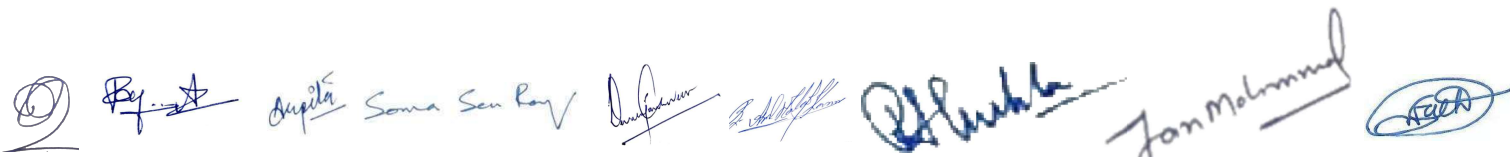
- 1) Without the Procuring Entity's prior written consent, the contractor shall not use the information mentioned above except for the sole purpose of performing this contract.
- 2) The contractor shall treat and mark all information as confidential (or Secret – as the case may) and shall not, without the written consent of the Procuring Entity, divulge to any person other than the person(s) employed by the contractor in the performance of the contract. Further, any such disclosure to any such employed person shall be made in confidence and only so far as necessary for such performance for this contract.
- 3) Notwithstanding the above, the contractor may furnish to its holding company or its Subcontractor(s) such documents, data, and other information it receives from the Procuring Entity to the extent required for performing the contract. In this event, the contractor shall obtain from such holding company/ Subcontractor(s) an undertaking of confidentiality (or secrecy – as the case may be) similar to that imposed on the contractor under the above clauses.
- 4) The obligation of the contractor under sub-clauses above, however, shall not apply to information that:
 - (a) the contractor needs to share with the institution(s) participating in the financing of the contract;
 - (b) now or hereafter is or enters the public domain through no fault of Contractor;
 - (c) can be proven to have been possessed by the contractor at the time of disclosure and which was not previously obtained, directly or indirectly, from the Procuring Entity; or
 - (d) otherwise lawfully becomes available to the contractor from a third party that has no obligation of confidentiality.

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- 5) The above provisions shall not in any way modify any undertaking of confidentiality (or Secrecy – as the case may be) given by the contractor before the date of the contract in respect of the contract/ the Tender Document or any part thereof.
- 6) The provisions of this clause shall survive completion or termination for whatever reason of the contract.

5.8 Performance Bond / Security

- 1) Within fourteen days (or any other period mentioned in Tender Document or Contract) after the issue of Letter of Award (LoA or the contract, if LoA is skipped) by the Procuring Entity, the contractor shall furnish to the Procuring Entity, performance security, valid up to sixty days (or any other period mentioned in Tender Document or Contract) after the date of completion of all contractual obligations by the contractor, including the warranty obligations.
- 2) The amount of Performance security shall be as stipulated in Tender Document or Contract (or if not specified @ 5% of the contract Price) denominated in Indian Rupees or the currency of the contract and shall be in one of the following forms:
 - (a) Unless otherwise stipulated in Tender Document or Contract, Account Payee Demand Draft or Fixed Deposit Receipt or Banker's Cheque is drawn on any commercial bank in India, favouring the authority mentioned in therein (or FA&CAO of the Procuring Organisation, if not mentioned).
 - (b) Bank Guarantee issued by a commercial bank in India, in the prescribed form provided in Format 1.3.
- 3) Twenty five percent (25%) of total contract value will be paid in two instalment as advance payment(Twenty Percent (20%) of total contract value will be paid as First instalment after issuance of supply order and second instalment of Five Percent (5%) of total contract value will be paid after successful completion of Detailed Design Review (DDR) as per Section VII, Clause no 16 of the tender document), 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 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 would be deemed as interest bearing advance payment at the interest rate of GPF + 2% to be compounded quarterly and recovered by IMD from the 110% Unconditional Advance Bank Guarantee.
- 4) If the contractor, having been called upon by the Procuring Entity to furnish Performance Security, fails to do so within the specified period, it shall be lawful for the Procuring Entity at its discretion to annul the award and enforce Bid Securing

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Declaration (in lieu of forfeiture of the Bid Security), besides taking any other administrative punitive action like 'Removal from List of Registered Suppliers' etc.

- 5) If the contractor during the currency of the Contract fails to maintain the requisite Performance Security, it shall be lawful for the Procuring Entity at its discretion at its discretion
- (a) to terminate the Contract for Default besides availing any or all contractual remedies provided for breaches/ default, or
 - (b) without terminating the Contract:
 - 1. recover from the contractor the amount of such security deposit by deducting the amount from the pending bills of the contractor under the contract or any other contract with the Procuring Entity or the Government or any person contracting through the Procuring Organisation or otherwise howsoever as per GCC-clause 10.4, or
 - 2. treat it as a breach of contract and avail any or all availing any or all contractual remedies provided for breaches/ default.
- 6) In the event of any amendment issued to the contract, the contractor shall furnish suitably amended value and validity of the Performance Security in terms of the amended contract within fourteen days of issue of the amendment.
- 7) The Procuring Entity shall be entitled, and it shall be lawful on his part,
- (a) to deduct from the performance securities or to forfeit the said security in whole or in part in the event of:
 - (i) any default, or failure or neglect on the part of the contractor in the fulfilment or performance in all respect of the contract under reference or any other contract with the Procuring Organisation or any part thereof
 - (ii) for any loss or damage recoverable from the contractor which the Procuring Entity may suffer or be put to for reasons of or due to above defaults/ failures/ neglect
 - (b) and in either of the events aforesaid to call upon the contractor to maintain the said performance security at its original limit by making further deposits, provided further that the Procuring Entity shall be entitled, and it shall be lawful on his part, to recover any such claim from any sum then due or which at any time after that may become due to the contractor for similar reasons.
- 8) Subject to the sub-clause above, the Procuring Entity shall release the performance security without any interest to the contractor on completing all contractual obligations, including the warranty obligations, if any. Alternatively, for the duration of
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Warranty obligations, upon the contractor submitting a suitable separate Warranty Security, the original Performance Guarantee Security shall be released mutatis mutandis.

- 9) No claim shall lie against the Procuring Entity regarding interest on cash deposits or Government Securities or depreciation thereof.

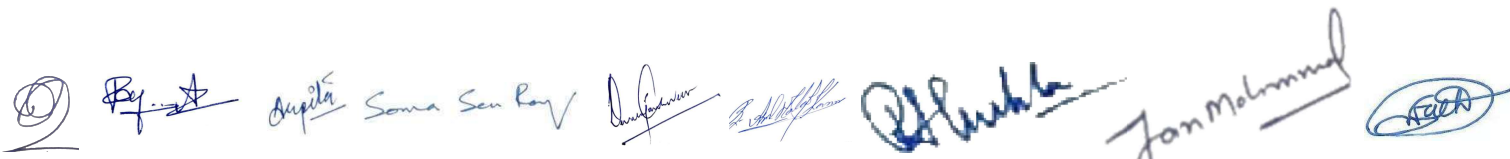
5.9 Permits, Approvals and Licenses

Whenever the supply of Goods and incidental Works/ Services requires that the contractor obtain permits, approvals, and licenses from local public authorities, it shall be the contractor's sole responsibility to obtain these and keep these current and valid. Such requirements may include but not be restricted to export licence or environmental clearance if required. If requested by the contractor, the Procuring Entity shall make its best effort to assist the contractor in complying with such requirements in a timely and expeditious manner, without any dilution of the Contractor's responsibility in this regard.

5.10 Book Examination Clause

If explicitly invoked in the contract, the Procuring Entity reserves the right for 'Book Examination' as follows:

- 1) the contractor shall, whenever called upon and required to produce or cause to be produced, for examination by any Government Officer duly authorised in that behalf, any cost or other book of account, voucher, receipt, letter, memorandum, paper or writing or any copy of or extract from any such document. The Contractor shall also furnish information relating to the execution of this contract or relevant for verifying or ascertaining the cost of executing this contract to such Government Officer in such manner as may be required. The decision of such Government Officer on the question of relevancy of any document, information of return being final and binding on the parties. The obligation imposed by this clause is without prejudice to the contractor's obligations under any other statute, rules or orders which shall be concurrently binding on the contractor.
- 2) the contractor shall, if the authorised Government Officer so requires (whether before or after the prices have been finally fixed), afford facilities to the Government Officer concerned to visit the contractor's premises to examine the processes of production and estimate or ascertaining the cost of performance of Contract. The authorised Government Officer shall have power, mutadis mutandis, to examine all the relevant books of Contractor's subcontractor, or any subsidiary or allied firm or company, If any portion of the contract is entrusted or carried out by such entities.

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- 3) If on such examination, it is established that the contracted price is more than the actual cost-plus reasonable margin of profit, the Procuring Entity shall have the right to reduce the price and determine the amount to a reasonable level.
- 4) The Contractor or its agency is bound to allow examination of its books within 60 days from the date the notice is received by the contractor or its agencies calling for the production of documents under sub-clause (1) above. In the event of the contractor's or his agency's failure to do so, the contract price would be reduced and determined according to the best judgment of the Procuring Entity, which would be final and binding on the contractor and his agencies.

5.11 Custody and Return of the Procuring Entity's Materials/ Equipment/ Documents loaned to Contractor.

- 1) Unless stipulated in the contract, no asset/ property/ drawings/ material/ samples/ equipment/ utility shall be provided or loaned to the contractor for the performance of the contract. Whenever such assets are required to be issued to the contractor (inter-alia in fabrication or design or development) as per the contract, these would be issued only as per terms and conditions and against appropriate safeguards (including Insurances, Bank Guarantee, Indemnity Bonds, Retention Money etc.) specified therein. The Contractor shall use such property for the execution of the contract and no other purpose whatsoever.
- 2) The contractors shall sign receipts for all tools, plants and materials or other assets/ properties made over to him by the Procuring Entity. All such assets shall be deemed to be in good condition when received by the contractor unless he has within twenty-four hours of the receipt thereof notified the Procuring Entity to the contrary. Otherwise, he shall be deemed to have lost the right to do so at any subsequent stage.
- 3) These assets shall remain the property of the Procuring Entity, and the contractor shall take all reasonable care of all such assets. The contractor shall be responsible for all damage or loss from whatever cause caused while such assets are possessed or controlled by the contractor, staff, workmen or agents.
- 4) Where the contractor insures such assets against loss or fire at the request of the Procuring Entity, such insurance shall be deemed to be by way of additional precaution and shall not prejudice the liability of the contractor as aforesaid
- 5) The Contractor shall return all such assets in good order or repair, fair wear and tear excepted, before the completion/ closure/ termination of the contract and shall be responsible for any failure to account for the same or any damage done to that as assessed by the Procuring Entity, whose decision shall be final and binding.

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5.12 Labour Codes and Related Obligations

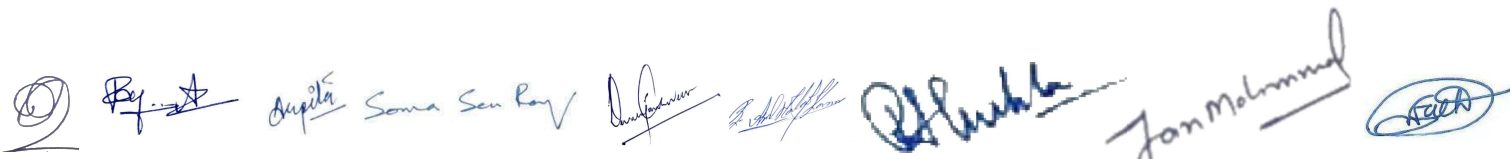
This clause shall be applicable only if it is specifically indicated to be applicable in SCC.

5.12.1 Independent Contractor

The contractor's status shall be that of an independent contractor and Primary Employer of staff deployed during the contract by him or his sub-contractors or other associates. The Contractor, its employees, agents, and subcontractors performing under this Contract are not employees or agents of the Procuring Organisation or Procuring Entity or Central or State Government or their agencies/ Enterprises, simply by Services delivered under this Contract.

5.12.2 Obligations of the contractor under Labour Codes and Rules

- 1) In cases where Contract or part(s) thereof is to be performed by the contractor at the premises of the Procuring Entity or Consignee, the contractor shall comply with the provisions of the Labour Codes, which including Code on Wages, 2019, The Industrial Relations Code 2020, Code on the Social Security 2020, and The Occupational Safety, Health and Working Conditions 2020, and Draft Rules made thereunder, as modified from time-to-time, wherever applicable and shall also indemnify the Procuring Entity from and against any claims under the aforesaid Labour codes and the Rules.
- 2) The Contractor shall obtain a valid licence under the aforesaid Labour codes and the Rules as modified from time-to-time before the commencement of the contract and continue to have a valid licence until the completion of the contract. Any failure to fulfil this requirement, the Procuring Entity shall treat it as a breach of contract for default as per the contract and avail any or all remedies thereunder.
- 3) In respect of all labour directly or indirectly employed in the contract for the performance of the contractor's part of the contract, the contractor shall comply with or cause to comply with the provisions of the aforesaid Labour codes and the Rules wherever applicable. The contractor shall be solely responsible for submitting all the necessary returns under these Codes and the Rules. Nevertheless, the contractor shall submit monthly returns to the Procuring Entity to confirm compliance with such Codes and rules. Failure to do so shall entitle Procuring Entity to take any measure to ensure compliance to such codes and rules by the contractor and his associates, including, but not limited to, withholding contractor's on-account bills.
- 4) The Contractor shall pay the wages as per the Code on Wages to their workers not below the rate of minimum wages, as notified by the State Government or Central Government, whichever is higher, through the bank transfer. Notwithstanding the contract's provisions to the contrary, the Contractor shall cause to be paid the wages to labour directly or indirectly engaged on the contract, including any engaged by his Sub-Contractors in connection with the said contract as if he had immediately employed the labour. The Procuring Entity shall, without any commitments or being obliged to do, may its discretion, monitor that such payments are being made. The

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5) In every case in which, by virtue of the provisions of the aforesaid Labour codes and the Rules, the Procuring Entity is obliged to pay any amount of wages to a workman employed by the contractor or his Sub-Contractor in execution of the contract or to incur any expenditure in providing welfare and health amenities required to be provided under the aforesaid Labour codes and the Rules or to incur any expenditure on account of the contingent liability of the Procuring Entity due to the contractor's failure to fulfil his statutory obligations under the aforesaid Labour codes and the Rules the Procuring Entity shall recover from the contractor, the amount of wages so paid or the amount of expenditure so incurred, and without prejudice to the rights of the Procuring Entity under the aforesaid Labour codes and the Rules, the Procuring Entity shall be at liberty to recover such amount or part thereof by deducting it from the security deposit and/ or from any sum due by the Procuring Entity to the contractor whether under the contract or otherwise. The Procuring Entity shall not be bound to contest any claim made against it under the aforesaid Labour codes and the Rules except on the contractor's written request, and upon giving the Procuring Entity complete security for all costs, Procuring Entity might become liable in contesting such claim. The decision of the Procuring Entity regarding the amount actually recoverable from the contractor as stated above shall be final and binding on the contractor.

- 1) The Contractor has to mandatorily provide a comprehensive day-long training carried out by a certified Third-Party agency for the awareness of Labour codes and the Rules, grievance redressal mechanism and other provisions applicable to his and his Sub-contractor's staff, workers, labour employed by him directly or indirectly in delivery of service to the Procuring Entity. The Contractor must submit relevant documentary proof to Procuring Entity of having conducted such training to all workers.
- 2) The Contractor must provide a comprehensive booklet (Procuring Entity approves that) containing all the relevant updated labour codes, rules, and other applicable provisions, to every worker at the outset of the contract in the local vernacular language.
- 3) Procuring Entity, without any commitments or being obliged to do, may its discretion, provide following facilities for Contractor's Contract Labour working on this Contract:
 - a) Helpline for complaints from labour regarding payment of wages, worksite facilities, sexual harassment etc

- b) Provision for recording anonymous complaints from workers, citizens etc., regarding violation of Labour codes and the Rules by Contractor.

6. Scope of Supply and Technical Specifications

6.1 The Scope of Supply

- 1) This contract is for the supply of the Goods of the description, specifications, and drawings, and in the quantities outlined in the contract on the dates specified therein.
- 2) **Incidental Works/ Services:** If so stipulated, the contractor shall be required to perform specified incidental Works/ Services (e.g., Installation, Commissioning, Operator's Training etc. in case of Supply of Capital Goods/ Machinery & Plant) as an integral part of the Goods in the contract.

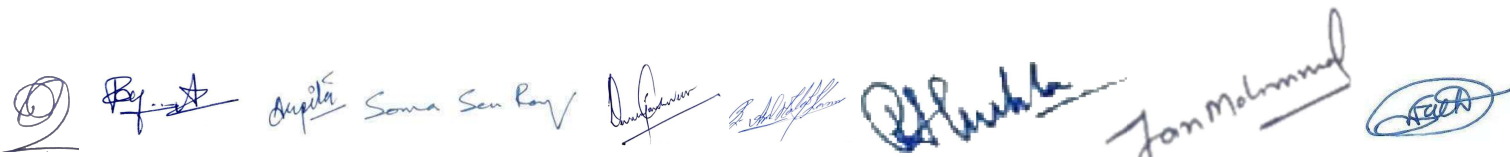
6.2 Technical Specifications and Standards

The Goods & incidental Works/ Services to be provided by the contractor under this contract shall conform to the technical specifications and quality control parameters mentioned in 'Technical Specification and Quality Assurance' under Sections VII of the Tender Document or as stipulated in the contract. Wherever references are made in the Contract to codes and standards by which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Contract. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser. For standards and requirements where no applicable specifications/ Quality Assurance are mentioned, appropriate latest authoritative standards and quality assurance issued by the concerned institution shall be applicable. The Goods supplied shall be.

- 1) Entirely brand new, unused, and incorporate all recent improvements in design and materials unless prescribed otherwise by the Procuring Entity in the contract.
- 2) conform to materials, manufacture and workmanship as stipulated in the contract, free of all defects and faults using specified/ appropriate materials, manufacture, and workmanship throughout and consistent with the established and generally accepted standards for Goods of the type ordered and in full conformity with the contract specification, drawing or sample, if any.

6.3 Eligible Goods - Country of Origin and Minimum Local Content

Unless otherwise stipulated in SCC or Contract, the country of origin of 'Goods' and 'incidental Works/ Service' to be supplied under the contract shall have their origin in India or other countries and must conform to the declaration made by the contractor in its bid regarding but not limited to i) restrictions on certain countries with land-borders with India; ii) minimum local content and location of value addition (Make in India Policy); iii) Contractor's status as MSE or Start-up. The term "origin" used in this clause means where the goods (including subcontracted components) are mined, grown, produced, or manufactured or from where the

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If invoked explicitly in the contract, the Procuring Entity shall reserve the right, but without any obligation to do so, to increase or decrease the ordered quantity upto a percentage specified therein (20% if not specified) at any time, till the final delivery date of the contract, by giving reasonable notice and commensurate delivery period, even though the quantity ordered initially has been supplied in full before the last date of Delivery Period.

1) If SCC/ Contract declares it to be the procurement of Capital Goods/ Machinery & Plant, the contractor shall supply/ provide any or all of the following materials, information etc. about spare parts manufactured and/ or supplied by them:

- (a) The spare parts as selected by the Procuring Entity to be purchased from the contractor, subject to the condition that such purchase of the spare parts shall not relieve the contractor of any contractual obligation including warranty obligations; and
- (b) In case the production of the spare parts is discontinued within the service life of the equipment supplied hereunder (or a period stipulated in the contract):
 - (i) sufficient advance notice to the Procuring Entity before such discontinuation to provide adequate time for it to purchase the required spare parts etc., and
 - (ii) immediately following such discontinuation, as and if requested by the Procuring Entity, provide free of cost the designs, drawings, layouts, specifications, and alternative sources of supply of such spare parts.

- 2) the contractor shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods so that the same is supplied to the Procuring Entity promptly on receipt of the order from the Procuring Entity.

If so stipulated in the SCC/ Contract, the following warranty/ Guarantee clause shall apply:

- 1) the contractor hereby covenants that it is a condition of the contract that all Goods supplied to the Procuring Entity under this contract shall be free of all defects and faults arising from design, materials (except when the design adopted and/ or the material used are as per the Procuring Entity's specifications) or workmanship or from any act or omission of the contractor, that may develop under regular use of the supplied Goods under the conditions prevailing in India.

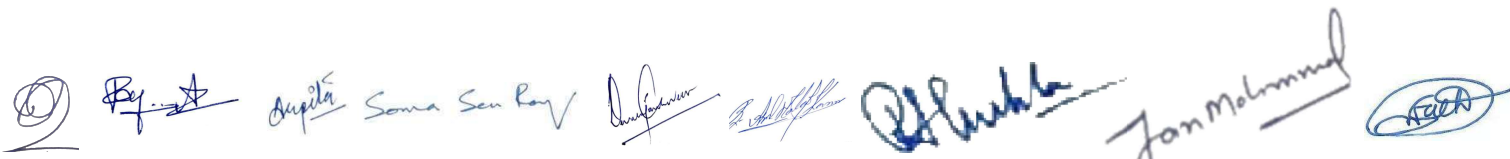
2 By Asmita Soma Sen Ray Asmita Asmita Asmita Asmita Asmita Asmita Asmita

- 2) Unless otherwise indicated in the contract, the contractor also guarantees that the said Goods would continue to conform to the description and quality as aforesaid, for 36 months from the date of placement in service (e.g., installation and commissioning). Obligations of the contractor under the warranty clause shall survive even though:
 - (a) The Goods may have been inspected, accepted, installed/ commissioned and paid for by the Procuring Entity.
 - (b) The contract is terminated for any reason whatsoever.
- 3) The Procuring Entity shall promptly notify in writing to the contractor, If during the period above, the said goods/ stores/ articles are discovered not to conform to the description and quality or have deteriorated, otherwise than by fair wear and tear (the decision of the Procuring Entity in that behalf being final and conclusive).
- 4) Upon receipt of such notice, the contractor shall, within 14 days (or within any other period, if stipulated in the contract), expeditiously repair or replace the defective Goods or parts thereof, free of cost, at the ultimate destination. The Contractor shall take over the replaced parts/ Goods after providing their replacements, and no claim shall lie on the Procuring Entity for such replaced parts/ Goods after that.
- 5) A penalty of 0.5% (half per cent) of the contract value for the delay in response time beyond specified time as detailed above shall be recoverable from the Performance/ Warrantee Guarantee or as per GCC-clause 10.4 below. The maximum penalty for warranty failure will be 5% (Five percent) of the contract value during the whole warranty period. If there is further such delay after reaching this limit, Procuring Entity shall be entitled to encashment of whole of Performance/ Warrantee Guarantee Bonds. In such an event, action similar to GCC-clause 9.10 for inordinate delays would also be taken.
- 6) In case of any rectification of a defect or replacement of any defective Goods during the warranty period, the warranty for the rectified/ replaced Goods shall remain till the original warranty period.
- 7) If the contractor, having been notified, fails to rectify/ replace the defect(s) within 21 days (or within any other period, if stipulated in the contract), it shall amount to breach of Contract for default under GCC-clause 12.1, and the Procuring Entity shall avail any or all remedial action(s) thereunder.

7. Inspection and Quality Assurance

7.1 Tests and Inspections

- 1) The 'Technical Specification and Quality Assurance' (Section VII) shall specify inspections and tests (including raw materials and/ or stage inspections, if so specified)

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to be carried out and where and how they are to be conducted. If such inspections and tests are conducted in the premises of the contractor or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the contractor to the Procuring Entity's inspector at no charge to the Procuring Entity.

- 2) The Procuring Entity and/ or its nominated representative(s) shall, without any extra cost to the Procuring Entity, inspect and/ or test the ordered Goods and the incidental Works/ Services to confirm their conformity to the contract specifications and other quality assurance details incorporated in the contract. As soon as a consignment is getting ready, the contractor shall submit a request for inspection to the Inspecting Officer and the Procuring Entity. The Inspecting Officer shall inform the contractor in writing of its programme for such inspection and the officials' identity to be deputed for this purpose.
- 3) If so stipulated in the contract, the contractor shall, before proceeding with bulk manufacture or delivery of the Goods, submit to the Inspecting Officer for inspection samples of the specified raw-material used in the manufacture and/ or the Goods as stipulated in the contract or by the Inspecting Officer. However, the Contractor shall not be entitled to be shown any consideration or give any extension of time or claim to be exonerated from completing the delivery within the stipulated period only on the ground of delay in the approval of any such sample.
- 4) Unless otherwise provided for in the contract, if the test proves satisfactory and the stores or any instalment thereof is accepted, the quantity of the stores or materials expended in the test shall be deemed to have been taken delivery of by the Purchaser and be paid for as such.
- 5) Unless otherwise stipulated, in the contract, all costs of tests and inspections (including any special or third-party tests), whether at the contractor's premises, shall be borne by the contractor. However, in case of stipulation for type testing/ proto-type testing of machinery and plant involving special tests, the contract shall indicate the apportionment of test and expended material costs among the parties.
- 6) Under no circumstances does the Inspecting officer have the authority to modify the governing specifications, approved drawings, or samples during inspection without the Procuring Entity's approval.

7.2 Consequence of Rejection

Upon the Goods being rejected by the Inspecting Officer or Interim Consignee or Consignee at a place other than the premises of the contractor, the Procuring Entity shall be at liberty to:

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- 1) Demand that such stores shall be removed by the contractor at his cost subject as hereinafter stipulated, within 21 days of the date of intimation of such rejection. Provided that the Inspecting Officer may call upon the contractor to remove dangerous, infected, or perishable stores within 48 hours of the receipt of such communication and the decision of the Inspecting Officer in this regard shall be final in all respects. Provided further that where the price or part thereof has been paid, the consignee is entitled without prejudice to his other rights to retain the rejected stores till the price paid for such stores is refunded by the contractor or dispose off such rejected Goods as per clause below save that such retention shall not in any circumstances be deemed to be acceptance of the stores or waiver of rejection thereon. The Contractor shall bear all cost of such replacement, including taxes and freight, if any, on replacing and replacing Goods without being entitled to any extra payment on that or any other account.
- 2) All rejected Goods shall, in any event, and circumstances remain and always be at the contractor's risk immediately on such rejection. If the contractor does not remove such Goods within the periods aforementioned, the Procuring entity /inspecting officer, as the case may be as per the place of rejection, may remove the rejected Goods. The Procuring Entity or Inspecting Officer may either return the same to the contractor at his risk and cost by such mode of transport as it may decide or dispose off such Goods at the contractor's risk and on his account and retain such portion of the proceeds from such disposal, as may be necessary to recover any expense incurred in connection with such disposals (or any price refundable as a consequence of such rejection). The Procuring Entity shall, in addition, be entitled to recover from the contractor ground rent/ demurrage charges on the rejected Goods after the expiry of the time-limit mentioned above.
- 3) Disposal of rejected goods in an aforesaid manner shall not exonerate contractor but still hold him liable to pay to the procuring entity, the dues as may arise as per the terms of contract besides the cost of goods if already paid to the contractor and any inspection charges. The Purchaser can take action as per contract terms if the contractor fails to pay the amount due to him.
- 4) where under the contract the price payable is fixed F.O.R. dispatching station, the contractor shall, if the Goods are rejected at destination by the consignee, be liable, in addition to his other liabilities, including a refund of price recoverable in respect of the Goods so rejected, to reimburse to the Procuring Entity the freight and all other expenses incurred by it in this regard. The Contractor shall be allowed to take back rejected Goods only after such refunds are received by the Procuring Entity.

7.3 Inspections at the last moment

[illegible]

- 1) If the contract stipulates pre-despatch inspection of the ordered Goods at Contractors premises, he shall put up the Goods for inspection well ahead of the delivery period to complete the inspection within that period.
- 2) In cases where only a portion of the Goods ordered is tendered for inspection at the last moments of the delivery period and also in cases where inspection is not completed in respect of the portion of the Goods tendered for inspection during the delivery period, the inspector shall carry out the inspection and complete the formality beyond the contractual delivery period at the specific written request by and at the risk and expense of the contractor. The fact that the Goods have been inspected after the contractual delivery period shall not amount to keeping the contract alive, and this shall be without any prejudice to the legal rights and remedies available to the Procuring Entity under the terms & conditions of the contract.
- 3) If the Goods tendered for inspection during or at the last moments of the delivery period are not found acceptable after carrying out the inspection, the Procuring Entity is entitled to cancel the contract in respect of the same at the risk and expense of the contractor. If the Goods tendered for inspection are found acceptable, the Procuring Entity may grant an extension of the delivery period subject to conditions mentioned in GCC-clause 9.11 below.

7.4 Consignee's right of Rejection of Inspected Goods

- 1) Goods accepted by the Procuring Entity and/ or its inspector at the initial inspection and final inspection in terms of the contract shall in no way dilute the Procuring Entity's right to reject the same later if found deficient concerning 'Technical Specifications and Quality Assurance'.
- 2) Notwithstanding any approval which the Inspecting Officer may have given in respect of the Goods or any materials or other particulars or the work or workmanship involved in the performance of the contract (whether with or without any test carried out by the contractor or the Inspecting Officer or under the direction of the Inspecting Officer) and notwithstanding delivery of the Goods where so provided to the interim consignee, it shall be lawful for the consignee, on behalf of the Procuring Entity, to inspect, test and, if necessary, reject the Goods or any part, portion or consignment thereof, after the Goods' arrival at the final destination within a reasonable time after actual delivery thereof to him at the place of destination stipulated in the contract, if such Goods or part, portion or consignment thereof is not in all respects in conformity with the terms and conditions of the contract whether on account of any loss, deterioration or damage before despatch or delivery or during transit or otherwise howsoever.



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Note: Regarding materials pre-inspected at the firm's premises during manufacture or before delivery or dispatch, the consignee shall issue rejection advice within 90 days from the date of receipt.

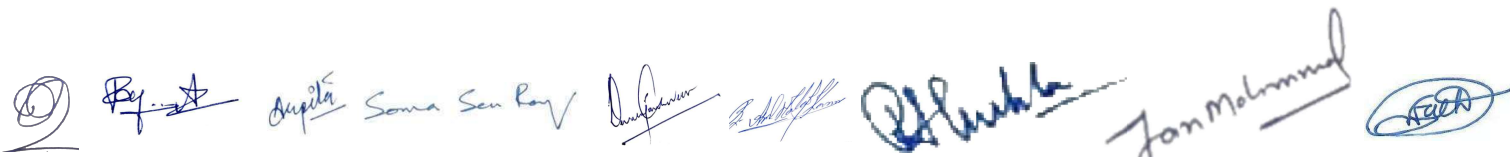
8. Packing, Transportation, Insurance and Receipt

8.1 Packing Specifications and Quality

- 1) The marking of the Goods must comply with the Goods of the laws relating to merchandise marks for the time being in force in India.
- 2) The packing for the Goods to be provided by the contractor should be strong and durable enough to withstand, without limitation, the entire journey during transit, including transshipment (if any), rough handling, open storage etc., without any damage, deterioration etc. If necessary, the size, weights, and volumes of the packing cases, the remoteness of the goods' final destination, and availability or otherwise of transport and handling facilities at all points during transit upto the final destination shall also be considered.
- 3) The quality of packing, the manner of marking within & outside the packages, and accompanying documentation shall strictly comply with the 'Technical Specification and Quality Assurance' and in the contract. If the packing requirements are amended due to any amendment to the contract, the contractor shall comply accordingly.
- 4) Unless otherwise provided in the contract, all containers (including packing cases, boxes, tins, drums, and wrappings) in which the contractor supplies the Goods shall be considered non-returnable and their cost included in the contract price.
- 5) If the contract provides that the containers shall be returnable, they must be marked 'returnable'. Unless otherwise specified, the cost of reverse transportation shall be borne by the contractor.
- 6) If the contract provides that returnable containers shall be separately charged, they shall be invoiced by the contractor at a price stipulated in the contract. In such cases, the contractor shall give full credit for the invoiced amount if the containers are returned to the contractor. Return of containers shall be made within a reasonable time, and in the event of any dispute or difference arising as to whether the containers were so returned, the decision of the Procuring Entity thereon shall be final and binding. In his discretion, the Procuring Entity may award such compensations as may, in his opinion, be proper for any undue delay in returning the containers.

8.2 Packing instructions

Unless otherwise mentioned in the 'Technical Specification and Quality Assurance' under Sections VII and SCC under Section V, the contractor shall make separate packages for each



consignee (in case there is more than one consignee mentioned in the contract) and mark each package on three sides with the following with indelible paint of proper quality:

- 1) An iconic graphical mark to visually identify a particular consignment.
- 2) Name of the Procuring Entity; contract number and date
- 3) brief description of Goods including quantity.
- 4) the gross weight of the package
- 5) Serial number of this package and the total number of packages in the consignment
- 6) packing list reference number
- 7) country of origin of goods
- 8) consignee's name and full address and
- 9) Contractor's name and address

8.3 Transfer of Title of Goods

- 1) Unless otherwise stated in the contract, notwithstanding any inspection and approval by the Inspecting Officer on the contractor's premises, or any payments made to the contractor, property in the Goods (and resultant rights and liabilities) shall not pass on to the Procuring Entity until the Goods have been received, inspected, and accepted by the consignee. The Goods and every constituent part thereof, whether in the possession or control of the contractor, his agents or servants or a carrier, or the joint possession of the contractor, his agents or servants and the Procuring Entity, his agents, or servants, shall remain in every respect at the risk of the contractor, until their actual delivery to a person stipulated in the contract as the interim consignee for despatch to the consignee. The Contractor shall be responsible for all loss, destruction, damage, or deterioration of or to the Goods from any cause whatsoever while the Goods after approval by the Inspecting Officer are awaiting despatch or delivery or are in the course of transit from the contractor to the consignee or, as the case may be, interim consignee. The Contractor shall alone be entitled and responsible for making claims against any carrier in respect of non-delivery, short delivery, mis-delivery, loss, destruction, damage, or deterioration of the Goods entrusted to such carrier by the contractor for transmission to the consignee or the interim consignee as the case may be.
- 2) Provided that where, under the terms of the contract, the Goods are required to be delivered to an interim consignee for despatch to the consignee, the Goods shall be at the Procuring Entity's risk after their delivery to the interim consignee.

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8.4 Transportation

8.4.1 Instructions for transportation of domestic Goods

If no instruction is provided in the contract, the contractor shall arrange transportation of the ordered Goods as per its procedure.

8.4.2 Shipping Arrangement for Foreign Contracts:

In the case of FOB/ FAS contracts, shipping arrangements shall be made by the Procuring Entity. The Contractor shall give adequate notice to the Procuring Entity and its Forwarding Agents/ Nominees about the readiness of the cargo from time to time and at least six weeks' notice in advance of the required date of dispatch for finalising the shipping arrangements. In the case of CFR contracts, the contractor shall arrange the shipment as per the instructions from the Procuring Entity.

8.4.3 Airlifting

Should the Procuring Entity intend to airlift all or some of the Goods, the contractor shall pack the Goods accordingly upon receiving intimation to that effect. Such deliveries shall be agreed upon well in advance and paid for as may be mutually agreed.

8.4.4 Distribution of Despatch Documents for Clearance/ Receipt of Goods

- 1) the contractor shall send all the relevant despatch documents well in time to the Procuring Entity to enable it to clear or receive (as the case may be) the Goods in terms of the contract. Unless otherwise stipulated in the contract, the usual documents involved and the drill to be followed in general for this purpose are as follows:
- 2) For Domestic Goods within 24 hours of despatch, the contractor shall notify the Procuring Entity, consignee, and others concerned, if mentioned in the contract, the complete details of despatch and also supply the following documents (as relevant) to them by registered post/ speed post/ courier besides advance intimation by digital means (or as instructed in the contract or SCC):
 - (a) the contractor's Invoice indicating, inter alia description and specification of the Goods, quantity, unit price, total value;
 - (b) Packing list;
 - (c) Insurance certificate;
 - (d) Railway receipt/ Road Consignment note;
 - (e) Manufacturer's guarantee certificate and in-house inspection certificate;
 - (f) Inspection certificate issued by the Procuring Entity's inspector
 - (g) Expected date of arrival of goods at destination and
 - (h) Any other document(s), as and if mentioned explicitly in the contract.
- 3) For Imported Goods, within 3 days of despatch, the contractor shall notify the Procuring Entity, consignee and other concerned, if mentioned in the contract, the

complete details of despatch and also supply the following documents to them by Courier (or as instructed in the contract), besides advance intimation by digital means:

- (a) Clean on-Board Airway Bill/ Bill of Lading (B/ L)
- (b) Original Invoice
- (c) Packing List
- (d) Certificate of Origin from Seller's Chamber of Commerce
- (e) Certificate of pre-despatch inspection by the Procuring Entity's representative/ nominee
- (f) Certificate of Quality and current manufacture from OEM
- (g) Dangerous Cargo Certificate, if any.
- (h) Insurance Policy of 110% if CIF contract.
- (i) Performance Bond/ Warranty Bond

8.5 Freight

The Goods shall be despatched at public tariff rates. In the case of F.O.R. station of despatch contract, the Goods shall be booked by the most economical route or most economical tariff available at the time of despatch as the case may be. Failure to do so shall render the contractor liable for any avoidable expenditure caused to the Procuring Entity. Where alternative routes exist, the Procuring Entity shall, if called upon to do so, indicate the most economical route available or name the authority whose advice in the matter shall be taken and acted upon. If any advice of any such authority is sought, his decision or advice in the matter shall be final and binding on the contractor,

8.6 Insurance

Unless otherwise instructed in the contract, the contractor shall arrange for insuring the Goods against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery in the following manner:

- 1) In case of domestic goods supply on CIF/ FOR destination basis, the contractor shall be responsible until the entire Goods contracted arrive in good condition at destination. The contractor shall cover the transit risk in this respect by getting the Goods duly insured at its own cost. The contractor shall obtain the insurance cover in its name and not in the name of the Procuring Entity or its Consignee.
- 2) In FOB and CFR offers for the import of Goods, the insurance shall be arranged by the Procuring Entity. However, the contractor must give sufficient notice to the Procuring Entity before the date of shipment so that the Insurance Cover for the shipment can be activated. The Contractor must co-ordinate to ensure that the Shipment sails only with Insurance cover in place.

- 3) In case of import of goods, even when the Procuring Entity pays the insurance, it shall entirely be the contractor's responsibility to make good loss/ damage without waiting for settlement of insurance claim so that equipment is commissioned within the time stipulated in the contract. After the insurance claim settlement, reimbursement shall be made by the Procuring Entity to the contractor.

8.7 Receipt of Consignment

8.7.1 Preliminary Acknowledgement

At the time of the delivery at the destination, the consignee shall receive the Goods on a "subject to inspection and acceptance in terms of contract" basis and shall issue the preliminary receipt to acknowledge having received the claimed quantity (not the quality) of consignment.

8.7.2 Goods Receipt and Inspection Report

If the received consignment successfully passes the quantity and quality checks, procuring Entity shall issue a Goods Receipt and Inspection Report (GRIR, or a similar voucher by any other name). The contractor may claim payment based on this document inter-alia other specified documents.

8.7.3 Rejection of Consignment by the Consignee

If the received consignment or part thereof fails to pass quantity and quality checks, the Procuring Entity shall issue a Rejection Note, noting the reasons for rejection. The Paying Authority shall recover any part payment or freight charges paid for the rejected consignment. The Contractor shall take back the rejected consignment as per GCC-clause 7.2 above within 21 days unless otherwise stipulated in the contract.

8.7.4 Short Receipt Certificate

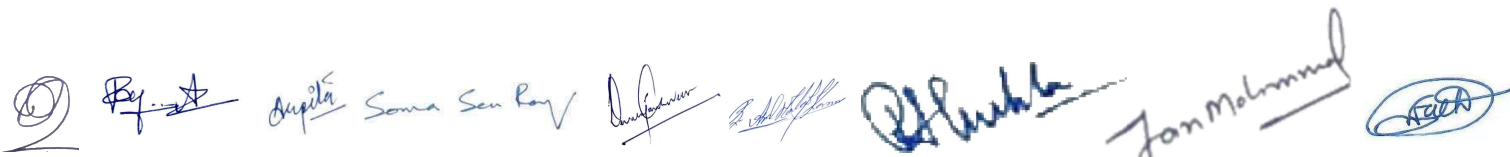
If the quantity received is less than claimed/ invoiced, GRIR/Rejection Note shall be issued only for the received quantity. In such cases, a short receipt certificate shall also be issued by the consignee.

8.7.5 Perishable Goods

For Goods with a limited shelf life, the contractor shall ensure that at least 75% (or any other percentage stipulated in the contract) of shelf life remains a balance on delivery date. The Procuring Entity reserves its rights to reject expired or products with less than such specified shelf life.

9. Terms of Delivery and delays

9.1 Effective Date of Contract

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The effective date of the contract shall be the date on which it has been signed by the Procuring Entity or the effective date mentioned in the contract, whichever is later. If the procurement entity receives no communication from the contractor within 14 days of the date signed by the procuring entity or the date of sending it to the contractor, whichever is later, then the date of signing shall be the effective date of the contract. The dates of deliveries shall be counted from such date. No notice to commence the contract shall be issued separately.

9.2 Time is the Essence of the contract

The time for and the date for delivering the Goods stipulated in the contract or as extended shall be deemed to be of the essence of the contract. Delivery must be completed not later than the date(s) so specified or extended.

9.3 Destination Places

The destination(s) where the Goods are to be delivered shall be as stipulated in the contract or Section VI – Schedule of Requirements.

9.4 Terms of Delivery

- 1) Terms of delivery (e.g., F.O.R. destination/ CIF/ DAP etc.) shall determine the point at which the responsibilities and property in goods passes over from the contractor to the Procuring Entity. These terms also determine the time of delivery.
- 2) the contractor shall either deliver free or D.A.P at the place/ places or otherwise as detailed in the contract, the quantities of the Goods detailed therein, and the Goods shall be delivered or despatched not later than the dates stipulated in the contract. The delivery shall not be complete unless the Goods are inspected and accepted by the Consignee as provided in the contract. No Goods shall be deliverable to the consignee on Sundays and public holidays or outside designated working hours without the written permission of the consignee.
- 3) the contractor shall not despatch the Goods after the expiry of the delivery period. The Contractor must apply to the Procuring Entity to extend the delivery period and obtain the same before despatch. If the contractor despatches the Goods without obtaining an extension, it would be doing so at its own risk, and no claim for payment for such supply and/ or any other expense related to such supply shall lie against the Procuring Entity.

9.5 Part Supplies

The Contractor shall not arrange part-shipments and/ or transshipment if not stipulated in the contract without the express/ prior written consent of the Procuring Entity.

9.6 Progressing of Deliveries

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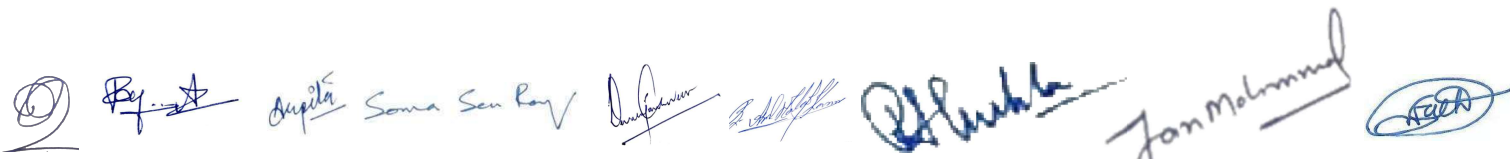
The Contractor shall allow reasonable facilities and free access to his Works/ records to the Inspecting Officer or such other Officer as may be nominated by the Procuring Entity to ascertain the progress of the deliveries under the contract. The Contractor shall, from time-to-time, render such reports concerning the progress of the contract and/ or supply of the Goods in such form as may be required by the Procuring Entity. The submission, receipt and acceptance of such reports shall not prejudice the rights of the Procuring Entity under the contract, nor shall operate as an estoppel against the Procuring Entity merely because he has not taken notice of/ or subjected to test any information contained in such report.

9.7 Notification of Delivery.

Notification of delivery or despatch regarding every instalment shall be made to the consignee and to the Procuring Entity immediately on despatch or delivery. The Contractor shall further supply to the consignee, or the interim consignee, as the case may be, packing list of the consignment and the contract references. All packages, containers, bundles, and loose materials part of every instalment shall be fully described in the packing list, and complete details of the contents of the packages and quantity of materials shall be given to enable the consignee to check the Goods on arrival at destination. The Railway Receipt/ Consignment Note or Bill of Lading shall be forwarded to the consignee by registered post/ Courier/ by hand immediately on the despatch of Goods. The Contractor shall bear and reimburse the Procuring Entity demurrage/ wharfage or other charges, if any, paid because of delay on the contractor's part in forwarding the Railway Receipt, Consignment Note or Bill of Lading.

9.8 Dispatches at the last moment or after the expiry of the delivery

- 1) If the contractor locally supplies a consignment after the expiry of the contracted delivery date, the Consignee may either refuse to receive it or receive it without prejudice to the rights of the Procuring Entity under the terms and conditions of the contract. Such consignments shall lie at the risk and responsibility of the contractor. Such a receipt by the consignee shall not acquiesce or condone the late delivery and shall not intend or amount to an extension of the delivery period or keeping the contract alive. The Contractor must obtain an extension of the delivery date/period from the Procuring Entity.
- 2) As regards supplies coming from outside, if the contractor dispatches the Goods after the expiry of the delivery period, it shall be at his own risk and responsibility, and that the consignee is not liable for any demurrage, wharfage, and deterioration of Goods at the destination station and, in his interest, the contractor shall get an extension of the delivery period from the contracting Entities.
- 3) In the case of imports, the contractor must not dispatch the consignment after the expiry of the delivery period without taking a prior extension of the delivery period. Otherwise, payment against the LC shall be denied. If dispatched, it shall be at the risk

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and responsibility of the contractor and procuring entity shall not take any responsibility for such consignments.

9.9 Delay in the contractor's performance

If the contractor fails to deliver the Goods or any instalment thereof or delays incidental Work/ Services (e.g. installation, commissioning, operator training etc.) within the period fixed for such delivery in the contract or as extended or at any time repudiates the contract before the expiry of such period, the Procuring Entity may without prejudice to his other rights:

- 1) recover from the contractor liquidated damages as per clause 9.12 below, or
- 2) treat the delay as a breach of contract as per clause 12.1 below and avail all the remedies therein.

9.10 Inordinate Delays

Inexcusable delays of more than one-fourth (25%) of the total completion period shall be treated as inordinate delays. Such inordinate delays shall be noted as poor performance and be held against the contractor in future tenders. A show-cause notice shall be issued to the contractor before declaring it a poor performance. Such delays may be considered as a breach of the contract at the option of the Procuring Entity.

9.11 Extension of Delivery Period:

- 1) If at any time during the currency of the contract, the contractor encounters conditions hindering timely delivery of the Goods and performance of incidental Works/ Services, he shall promptly inform the Procuring Entity in writing about the same and its likely duration. He must make a request to the Procuring Entity for an extension of the delivery schedule. On receiving the contractor's communication, the Procuring Entity shall examine the situation and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages and with and without denial clause by issuing an amendment to the contract.
- 2) **Conditions for Extension of Delivery Period:** When the period of delivery is extended due to unexcused delay by the contractor, the amendment extending the delivery period shall, inter alia, be subject to the following conditions:
 - (a) **Liquidated Damages:** The Procuring Entity shall recover from the contractor, under the provisions of this clause, liquidated damages on the Goods and incidental Works/ Services, which the contractor has failed to deliver within the delivery period stipulated in the contract.
 - (b) **Denial Clause:**

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- (i) No increases in price on account of any statutory increase in or fresh Imposition of GST, customs duty or on account of any other taxes/ duty/ cess/ levy), leviable in respect of the Goods and incidental Works/ Services stipulated in the said contract which takes place after the original delivery date, shall be admissible on such of the said Goods, as are delivered after the said date; and
- (ii) Notwithstanding any stipulation in the contract for an increase in price on any other ground, including price variation clause or foreign exchange rate variation, or any other variation clause, no such increase after the original delivery date shall be admissible on such goods delivered after the said date.
- (iii) Nevertheless, the Procuring Entity shall be entitled to the benefit of any decrease in price on account of reduction in or remission of GST, customs duty or on account of any other Tax or duty or any other ground as stipulated in the price variation clause or foreign exchange rate variation or any other variation clause which takes place after the expiry of the original delivery date.

9.12 Liquidated damages

- 1) Subject to GCC clause 9.11, if the contractor fails to deliver any or all of the Goods or fails to perform the incidental Works/ Services (e.g. installation, commissioning or operator training) within the time frame(s) incorporated in the contract, the Procuring Entity shall, without prejudice to other rights and remedies available to the Procuring Entity under the contract, deduct from the contract price, as agreed liquidated damages, but not as a penalty, a sum equivalent to the ½% percent (or any other percentage if prescribed in the contract) of the delivered price at each site (including elements of GST & freight) of the /delayed Goods and/ or incidental Works/ Services for each week of delay or part thereof until actual delivery or performance, subject to a maximum deduction of the 10% (or any other percentage if prescribed in the contract) of the delayed Goods' or incidental Works/ Services' contract price(s). Besides liquidated damages during such a delay, the denial clause as per GCC-clause 9.11-2(b) shall also apply.
- 2) Any failure or delay by any sub-contractor, though their employment may have been sanctioned under GCC-clause 5.5 above, shall not be admitted as a ground for any extension of time or for exempting the contractor from liability for any such loss or damage as aforesaid.

9.13 Force Majeure

- 1) On the occurrence of any unforeseen event, beyond the control of either Party, directly interfering with the delivery of Services arising during the currency of the contract, such as war, hostilities, acts of the public enemy, civil commotion, sabotage, fires,

2 By [Signature] Angika Soma Sen Ray [Signature] [Signature] [Signature] Jon Mohammad [Signature]

floods, explosions, epidemics, quarantine restrictions, strikes, lockouts, or acts of God, the affected Party shall, within a week from the commencement thereof, notify the same in writing to the other Party with reasonable evidence thereof. Unless otherwise directed by the Procuring Entity in writing, the contractor shall continue to perform its obligations under the contract as far as reasonably practicable and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. If the force majeure condition(s) mentioned above be in force for 90 days or more at any time, either party shall have the option to terminate the contract on expiry of 90 days of commencement of such force majeure by giving 14 days' notice to the other party in writing. In case of such termination, no damages shall be claimed by either party against the other, save and except those which had occurred under any other clause of this contract before such termination.

- 2) Notwithstanding the remedial provisions contained in GCC-clause 9.12 or 12.1, none of the Party shall seek any such remedies or damages for the delay and/ or failure of the other Party in fulfilling its obligations under the contract if it is the result of an event of Force Majeure.

10. Prices and Payments

10.1 Prices

10.1.1 Charged Prices

Prices to be charged by the contractor for the supply of Goods and provision of incidental Works/ Services in terms of the contract shall not vary from the corresponding prices quoted by the contractor in its bid or during negotiations, if any, and incorporated in the contract except for any price adjustment authorized in the contract.

10.1.2 Controlled Prices

- 1) The price charged by the contractor shall not be higher than the controlled price fixed by law for the Goods, or where there is no controlled price, it shall not exceed the minimum of Maximum Retail Price (MRP) at which the same or similar Goods are available in the market in the relevant region, or contravene the norms for fixation of prices laid down by Government, or where the Government has not fixed such prices or norms, it shall not exceed the price appearing in any agreement relating to price regulation by any industry in consultation with the Government.
- 2) **Penalties for overcharging:** If the sub-clause above is violated, unless the contractor had explicitly mentioned this fact in his bid giving reasons for quoting a higher price (s), or makes any mis-statement, it shall be lawful for the Procuring Entity to:

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- (a) annul the award and treat it as a misdemeanour as per the contract and take any or all punitive remedies available thereunder, or
- (b) without annulling the award, take action as per GCC-clause 10.4 to recover the overcharged amount, or
- (c) treat it as a breach of contract as per GCC-Clause 12.1 and avail any or all remedies thereunder.

10.1.3 Price Components and Incidental Works/ Services

Unless otherwise stated in the contract, The Procuring Entity shall not pay for consignment of incomplete components unless the full useable Scope of Goods (as per the contract/ Schedule of Requirement) has been received. Deficiencies in incidental Works/ Services shall also amount to incomplete delivery. Spares would not be paid for unless the primary Goods are received.

10.1.4 Firm Prices

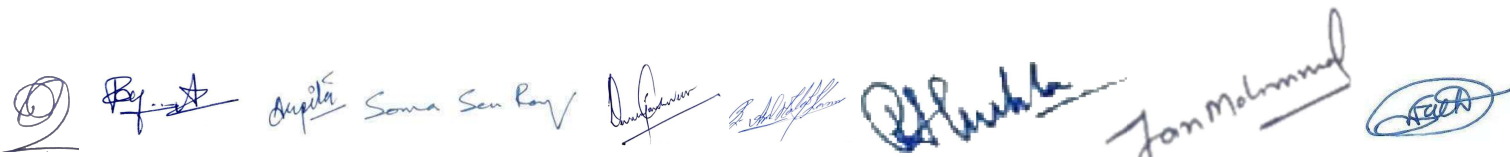
Unless otherwise stipulated in the contract, Prices shall be fixed and firm. If a Price Variation Clause, an Exchange Rate Variation Clause, or any other variation clause is included, such up and down variations shall also be payable as per clause 10.3.3 below.

10.1.5 Price Variation and Exchange Variation Clause

- (a) In case the contract provides for a Price Variation Clause or Exchange Rate variation clause or variation on any other account, the price shall be subject to adjustment as per such clauses, only during the original Delivery Period, subject to the following:
- (b) Any increase due to such variations during the extended delivery period, beyond the original delivery period, shall not be paid by the Procuring Entity; however, it shall be entitled to any reduction during this period under the GCC-clause 9.11-2)b) (Denial Clause).
- (c) Taxes and duties, if any, chargeable and payable on the Goods shall be charged on the nett price after variations.
- (d) While claiming payments where such variations are applicable, the contractor must submit its calculations for each invoice, even if the payment on account of these variations is nil. Prices reduction due to such variations must be passed on to the Procuring Entity.
- (e) **No Other Claim due to Variations:** With the payment of such variations, no additional individual claim shall be admissible on account of fluctuations in market rates, increase in taxes/any other levies/tolls etc.

1) Price Variation Clause

- (a) If the Price Variation clause is applicable as per the contract, the price shall be subject to adjustment to take care of the changes in the cost of labour, material, and

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fuel/ power components as per the price variation formula specified therein. The amount payable on account of Price variation shall be settled every quarter.

- (b) **Base Month and Quarter:** Unless otherwise stipulated in the contract, the Base Month for 'Price Variation Clause' shall be taken as the month before the month of the last date of bid submission, if any, unless otherwise stated elsewhere. The Base Quarter for applicability of PVC shall end on the Base Month. Unless The Contract has stipulated a different time lag for reckoning Price Variation, the month of reckoning the variated price shall be the month before the month in which delivery has been made. The Quarter of reckoning for applicability of PVC shall end on the Month of reckoning. The Price Variation shall be based on the relevant Indices in the Base Quarter and Quarter of reckoning.
- (c) **Applicability:** If Contract provides for some inputs to be supplied by Procuring Entity free or at a fixed rate, cost of such inputs shall be excluded from the value of the Goods supplied in the relevant quarter for payment/recovery Of price variation.

2) Exchange Rate Variation Clause

- (a) The contract shall indicate import content and the currency used for calculating import content. The Base Exchange rate of each significant currency used for calculating the Foreign Exchange content of the contract shall be as prevailing on the last deadline for submission of Techno-commercial Bids, and variation beyond the base Exchange Rate shall be calculated up to the midpoint of the delivery period unless the bidder has already indicated the schedule within which the bidder shall import material.
- (b) Unless otherwise stipulated in the contract, documents for claiming ERV shall be:
- (i) A bill of ERV claim enclosing working sheet.
 - (ii) Banker's Certificate/ debit advice detailing F.E. paid and exchange rate as on the date of the relevant transactions.
 - (iii) Copies of import order/agreement placed by the contractor on its Suppliers.
 - (iv) Invoice of Contractor's Suppliers for the relevant import order

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10.1.6 Fall Clause

This clause shall be applicable only if explicitly invoked in SCC. Nevertheless, Fall Clause shall be expressly applicable in case of Rate Contract (Refer SCC-clause 6.8):

- 1) The price charged for the Goods supplied under the contract by the contractor shall in no event exceed the lowest price at which the contractor sells the Goods or offers to sell Goods of identical description, to any persons/ organisations including the Procuring Entity or any Department or Undertaking of the Central Government, as the case may be during the currency of the contract in last 3 years. Contractor shall forthwith notify such reduction or sale or offer of sale to the Procuring Entity and the price payable under the contract for the Goods supplied after the date of coming into force or such reduction or sale or offer of sale shall stand correspondingly reduced.
- 2) The above stipulation shall, however, not apply to:
 - (a) Exports by the contractor
 - (b) Sale of Goods as original equipment at prices lower than the prices charged for normal replacement
 - (c) Sale of perishable Goods having a limited shelf life, such as drugs that have expiry dates
- 3) the contractor shall furnish the following certificate to the concerned Accounts Officer with each bill for payment of supplies made against the contract.

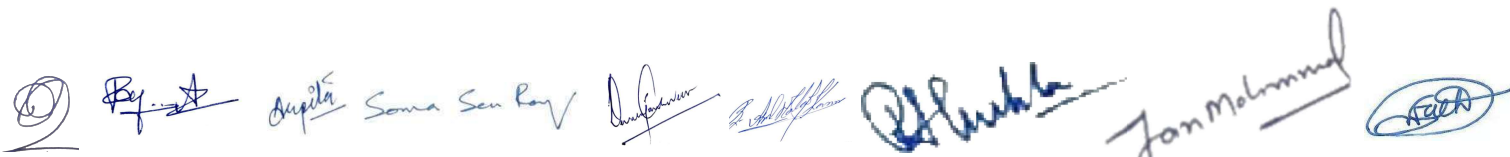
** We certify that there has been no reduction in the sale price of the Goods of description identical to the Goods supplied to the Procuring Entity under the contract herein, and such Goods have not been offered/ sold by me/ us to any person/ organisation including any Ministry/ Department/ Attached and Subordinate Office/ Public Sector Undertaking of Central or State Government(s) as the case may be upto the date of bill/ the date of completion of Contract at a price lower than the price charged under this contract except for the quantity of Goods categories under (a), (b) and (c) of sub-clause (2) above, details of which are as follows:-"*

10.2 Taxes and Duties

- 1) the contractor shall be entirely responsible for all taxes, duties, fees, levies etc., incurred until delivery of the Goods to the Procuring Entity. Further instruction, if any, shall be as provided in the contract.
- 2) If applicable under relevant tax laws and rules, the Procuring Entity shall deduct from all payments and deposit required taxes to respective authorities on account of GST Reverse Charge Mechanism; Tax Deducted at Source (TDS), and Tax Collected at Source (TCS) relating to Income Tax, labour cess, royalty etc.

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Procuring Organisation

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3) Payment of GST Tax under the contract:

- (a) The payment of GST and GST Cess to the contractor shall be made only on the latter submitting a GST compliant Bill/ invoice indicating the appropriate HSN code and applicable GST rate thereon duly supported with documentary evidence as per the provision of relevant GST Act and the Rules made there under. The delivery shall be shown being made in the name, location/ state, and GSTIN of the consignee only; the location of the procurement office of the procuring entity has no bearing on the invoicing.
- (b) The supply of Goods or services or both, if imported into India, shall be considered as supply under inter-state commerce/ trade and shall attract integrated tax (IGST). The IGST rate and GST cess shall be applicable on the 'Custom Assessable Value' plus the 'Basic Customs duty applicable thereon'.
- (c) While claiming reimbursement of duties, taxes etc. (like GST) from the Procuring Entity, as and if permitted under the contract, the contractor shall also certify that in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the contractor) shall refund to the Procuring Entity, the Procuring Entity's share out of such refund received by the contractor. The Contractor shall also refund the appropriate amount to the Procuring Entity immediately on receiving the same from the concerned authorities.
- (d) All necessary adjustment vouchers such as Credit Notes/ Debit Notes for any short/ excess supplies or revision in prices or any other reason under the contract shall be submitted to the Procuring Entity in compliance with GST provisions.
- (e) Liquidated damages or any other recoveries should be shown as deductions on the invoice, and GST shall be applicable only on the nett balance payment due.
- (f) In case of Price Variation or Exchange Rate variation, or any other variation is applicable, GST shall be applicable on the nett invoice value after the variation is taken into account.
- (g) GST shall be paid as per the rate at which it is liable to be assessed or has been assessed provided the transaction of the sale is legally liable to such taxes and is payable as per the terms of the contract subject to the following conditions:
 - (i) The Procuring Entity shall not pay a higher GST rate if leviable due to any misclassification of HSN number or incorrect GST rate incorporated in the contract due to contractor's fault. Wherever the contractor invoices the Goods at GST rate or HSN number, which is different from that incorporated in the contract, payment shall be made as per GST rate, which is lower of the GST rates incorporated in the contract or billed.
 - (ii) However, the Procuring Entity shall not be responsible for the contractor's tax payment or duty under a misapprehension of the law.

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- (iii) Bidder is informed that he shall be required to adjust his basic price to the extent required by a higher tax rate billed as per invoice to match the all-inclusive price mentioned in the contract.
- (iv) In case of profiteering by the contractor relating to GST tax, the Procuring Entity shall treat it as a violation of the Code of Integrity in the contract and avail any or all punitive actions thereunder, in addition to recovery and action by the GST authorities under the Act.
- (v) The contractor should issue Receipt vouchers immediately on receipt of all types of payments along with tax invoices after adjusting advance payments, if any, as per Contractual terms and GST Provisions.
- (vi) Liquidated damages or any other recoveries should be shown as deductions on the invoice, and GST shall be applicable only on the nett balance payment due.

4) Statutory Variation Clause: Unless otherwise stated in the contract, statutory increase in applicable GST rate only during the original delivery period shall be to Procuring Entity's account. Any increase in the rates of GST beyond the original completion date during the extended delivery period shall be borne by the contractor. The benefit of any reduction in GST rate must be passed on to the Procuring Entity during the original and extended delivery period. However, GST rate amendments shall be considered for quoted HSN code only, against documentary evidence, provided such an increase of GST rates after the last date of bid submission.

5) Duties/ Taxes on Raw Materials

The Procuring Entity is not liable for any claim from the contractor on account of fresh imposition and/ or increase (including statutory increase) of GST, customs duty, or other duties on raw materials and/ or components used directly in the manufacture of the contracted Goods taking place during the pendency of the contract unless such liability is expressly agreed to in terms of the contract.

6) Customs Duty

Bidder shall specify the rate and the total amount of customs duty payable regarding imported goods. Bidder shall also indicate the corresponding Indian Tariff Classification (ITC-HS) applicable for the Goods in question.

② By Amita Soma Sen Ray Anurupa Siddha Rishika Jan Mohammad Neha

10.3 Terms and Mode of Payment

10.3.1 For Domestic Goods:

- 1) The payments shall be made in the manner as per Procuring Entity's payment procedures. Unless otherwise stipulated in the SCC, payments above INR 5,000 (or any other threshold specified) to Contractors shall be made through EFT only. The Contractor shall give his consent in a mandate form for receipt of payment through NEFT. In case of non-payment through EFT, or where the EFT facility is not available, payment may be released through cheque.
- 2) Unless otherwise stipulated in the contract, the usual payment term is:
 - (a) In case of CIF destination/ delivery at site/ FOR destination, payment term shall- 100% on receipt and acceptance of Goods by the consignee and on the production of all required documents by the contractor.
 - (b) In case of FOR dispatching Station, the %age of payment as stipulated in the contract shall be paid on proof of despatch and other related documents and balance on receipt at site and acceptance by the consignee.
- 3) Unless otherwise stipulated in the contract, where Goods to be supplied are pre-inspected at Contractor's premises by the Procuring Entity's Inspecting agency, the payment terms shall be as under for claims amounting to more than INR. 5,00,000/-:
 - (a) 95% payments for each consignment of the Goods shall be made to the contractor against proof of inspection and proof of delivery in good condition at the consignee's end. Signed Receipted Challan from consignee shall be taken as the proof of delivery but shall not construe final acceptance by the consignee.
 - (b) The balance 5% payment shall be made after receiving and accepting the material by the consignee at his end against GRIR.
- 4) Unless otherwise stipulated in the contract, where Goods to be supplied also need installation and commissioning by the contractor, the payment terms shall be as under for claims amounting to more than. INR 5,00,000/-:
 - (a) For a contract with terms of delivery as FOR dispatching station
 - (i) 60% on proof of despatch along with other specified documents
 - (ii) 30% on receipt of the Goods at the site by the consignee and balance
 - (iii) 10% on successful installation and commissioning and acceptance by the user department.
 - (b) For a contract with terms of delivery as CIF destination/ Delivery at site/ FOR destination

2 By Asmita Soma Sen Ray Asmita Asmita Asmita Asmita Asmita Asmita Asmita

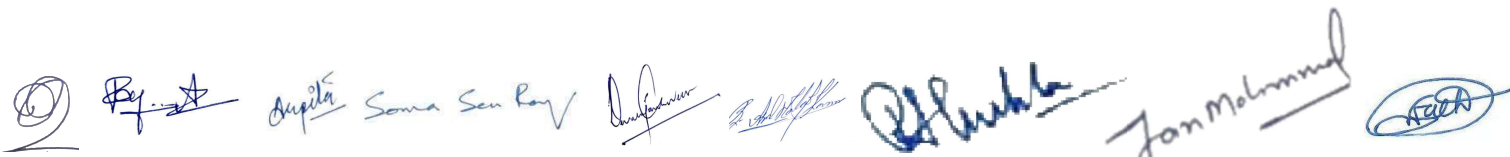
- (i) 90% on receipt and acceptance of goods by the consignee at destination and on the production of all required documents by the contractor
- (ii) 10% on successful installation and commissioning and acceptance by the consignee.

10.3.2 For Imported Good:

- 1) Unless otherwise stipulated in the contract, payments are made through an irrevocable Letter of Credit (LC).
 - (a) In cases where Installation, Erection and Commissioning (if applicable) are not the responsibility of the contractor, 95% of the contract price shall be paid against documents stipulated in the contract. The remaining 5 percent on receipt of the Goods as per the terms of the contract in good condition by the Consignee, and on producing the certificate of such receipt endorsed on one copy of the Inspection Note by the Consignee, or at the contractor's option, the full value of the Goods shall be paid after inspection, on receipt of the consignment as per the terms of the contract in good condition by the Consignee and on producing a certificate of such receipt endorsed on one copy of the Inspection Note.
 - (b) In cases where Installation, Erection and Commissioning are the responsibility of the contractor – the percentage stipulated in the contract of the net FOB/ FAS price shall be paid against documents stipulated in the contract and balance within 21 - 30 days of successful installation and commissioning at the consignee's premises and acceptance by the consignee.
 - (c) Payment of Agency Commission against FOB/ FAS Contract – Entire 100% agency commission shall be paid in Indian Rupees after the expiry of 90 days after the discharge of all obligations under the contract and after all other payments have been made to the contractor in terms of the contract. The source's tax deductions apply to the agency commission paid to the Indian agent as per the prevailing rules.

10.3.3 General Payment condition for payment

- 1) In Domestic Contracts, payments shall only be made in Indian Rupees. In Global Tenders, payment to foreign bidders shall be made in the currency/ currencies authorized in the contract. However, agency commission and local value addition shall be paid only in Indian Rupees.
- 2) the contractor shall send its claim for payment in writing as per GST compliant Invoice and documents, when contractually due, along with relevant documents etc., as stipulated in Contract and a manner as also specified therein.
- 3) While claiming payment, the contractor is also to certify in the bill that the payment being claimed is strictly in terms of the contract and all the obligations on the part of

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the contractor for claiming that payment has been fulfilled as required under the contract.

- 4) Unless otherwise specified documents which the contractor is to furnish while claiming payment are:
- (a) Original Invoice (GST Compliant format)
 - (b) Certificate of pre-despatch inspection by the Procuring Entity's representative/ nominee, if applicable
 - (c) Manufacturer's test certificate, if applicable
 - (d) Performance/ Warrantee Bond, if applicable
 - (e) Certificate of Insurance, if applicable
 - (f) Clean on Bill of lading/ Airway bill/ Rail receipt or any other despatch document, in case of payment against dispatch documents, if so provided
 - (g) Consignee's Certificate confirming receipt and acceptance of Goods, in case of payment after receipt and acceptance
 - (h) Any other document specified.
- 5) In a case where the contractor is not in a position to submit its bill for the balance payment for want of receipt certificate from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, the balance amount shall be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the Goods in question, subject to the following conditions:
- (a) The contractor must provide proof that he has given sufficient prior notice in this regard to the Procuring Entity and the concerned Consignee(s), but there has been no response.
 - (b) the contractor shall undertake to make good any defect or deficiency that the consignee (s) may report within six months from the date of despatch of Goods.
 - (c) Delay in supplies, if any, has been regularized.
 - (d) The Contract price, where it is subject to variation, has been finalized.
 - (e) the contractor furnishes the following undertakings:

"We, _____ certify that We have not received back the Inspection Note duly receipted by the consignee or any communication from the Procuring Entity or the consignee about non-receipt, shortage or defects in the Goods supplied. We _____ undertake to make good any defect or deficiency that the consignee may report within three months from the date of receipt of this balance payment or six months from the date of despatch, whichever is later.

10.3.4 Advance/ mobilization Payment not allowed:

Payments for supplies made or incidental works/ services rendered shall be released after supplies have been made and only after such incidental works/ services have also been rendered. If expressly provided for in the contract, partial payments against dispatch documents shall not be considered an advance payment for this clause.

10.4 Withholding and lien in respect of sums claimed:

- 1) Whenever any claim or claims for payment of a sum of money arises against the contractor, out of or under the contract, the Procuring Entity shall be entitled, and it shall be lawful on his part, to withhold and also have a lien to retain such sum or sums, in whole or in part pending finalisation or adjudication of any such claim from-
 - (a) any security or retention money, if any, deposited by the contractor.
 - (b) any sum(s) payable till now or hereafter to the contractor under the same Contract or any other contract with the Procuring Entity if the security is insufficient or if no security has been taken from the contractor.
- 2) Where the contractor is a partnership firm or a limited company, the Procuring Entity shall be entitled, and it shall be lawful on his part, to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/ limited company, as the case may be, whether in his capacity or otherwise.
- 3) It is an agreed term of the contract that the sum(s) of money so withheld or retained under the lien referred above shall be kept withheld or retained till the claim arising out of or under the contract is determined under clause GCC 11 and/ or 12. The contractor shall have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to supra and duly notified as such to the contractor.
- 4) **Lien in respect of Claims in other Contracts:** Any sum of money due and payable to the contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Procuring Entity or Government against any claim of the Procuring Entity or Government in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Procuring Entity or Government.

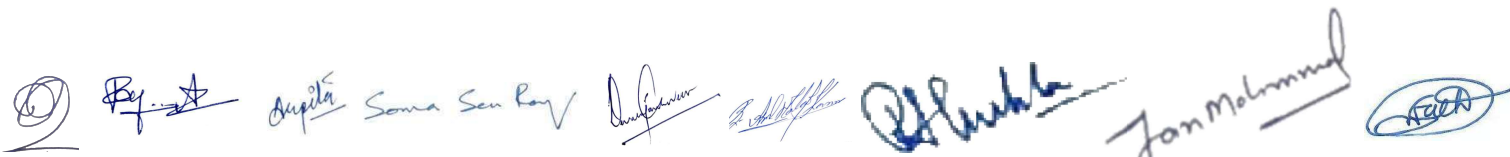
10.5 Payment Against Time-Barred Claims

All claims against the Procuring Entity shall be legally time-barred after three years calculated from the date when the payment falls due unless the payment claim has been under correspondence. The Procuring Entity is entitled to, and it shall be lawful for it to reject such claims.

10.6 Commissions and Fees

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Procuring Organisation

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The Contractor shall disclose any commissions or fees that may have been paid or are to be paid to agents, representatives, or commission agents concerning the selection process or execution and performance of this Contract. The information disclosed must include the name and address of the agent, representative, or commission agent, the amount and currency, and the purpose of the commission or fee in a format similar to Form 1.4 of the Tender Document.

11. Resolution of disputes

11.1 Disputes and Excepted Matters

All disputes and differences between the parties hereto, as to the construction or operation of this contract, or the respective rights and liabilities of the parties on any matter in question; or any other account whatsoever, but excluding the Excepted Matters (detailed below); arising out of or in connection with the contract, within thirty (30) days from aggrieved Party notifying the other Party of such matters; whether before or after the completion/ termination of the contract, that cannot be resolved amicably between the Procurement Officer and the contractor within thirty (30) days from aggrieved Party notifying the other Party of such matters, shall be hereinafter called the "Dispute". The aggrieved party shall give a 'Notice of Dispute' indicating the Dispute and claims citing relevant Contractual clause to the designated authority and requesting for invoking the following dispute resolution mechanisms. The Dispute shall be resolved without recourse to courts through dispute resolution mechanisms detailed subsequently, in the sequence as mentioned below, and the next mechanism shall not be invoked unless the earlier mechanism has been invoked or has failed to resolve it within the deadline mentioned therein.

- 1) Adjudication
- 2) Conciliation
- 3) Arbitration

11.2 Excepted Matters

Matters for which provision has been made in any Clause of the contract shall be deemed as 'excepted matters' (matters not disputable/ arbitrable), and decisions of the Procuring Entity, thereon shall be final and binding on the contractor. The 'excepted matters' shall stand expressly excluded from the purview of the sub-clauses below, including Arbitration. However, where the Procuring Entity has raised the dispute, this sub-clause shall not apply. Unless otherwise stipulated in the contract, excepted matters shall include but not limited to:

- 1) any controversies or claims brought by a third party for bodily injury, death, property damage or any indirect or consequential loss arising out of or in any way related to the performance of this Contract ("Third Party Claim"), including, but not limited to, a

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Party's right to seek contribution or indemnity from the other Party in respect of a Third-Party Claim.

- 2) Issues related to the pre-award tender process or conditions
- 3) Issues related to ambiguity in contract terms shall not be taken up after a contract has been signed. All such issues should be highlighted before the signing of the contract by the contractor.
- 4) Provisions incorporated in the contract, which are beyond the purview of The Procurement Entity or are in pursuance of policies of Government, including but not limited to
 - (a) Provisions of restrictions regarding local content and Purchase Preference to Local suppliers in terms of Make in India policy of the Government
 - (b) Provisions regarding restrictions on Entities from Countries having land-borders with India in terms of the Government's policies in this regard
 - (c) Purchase preference policies regarding MSEs and Start-ups

11.3 Adjudication

After exhausting efforts to resolve the Dispute with the Purchasing Officer executing the contract on behalf of the Procuring Entity, the contractor shall give a 'Notice of Adjudication' specifying the matters which are in question, or subject of the dispute or difference indicating the relevant contractual clause, as also the amount of claim item-wise to Head of Procurement or any other authority mentioned in the contract (hereinafter called the "Adjudicator") for invoking resolution of the dispute through Adjudication. During his adjudication, the Adjudicator shall give adequate opportunity to the contractor to present his case. Within 60 days after receiving the representation, the Adjudicator shall make and notify decisions in writing on all matters referred to him. The parties shall not initiate, during the adjudication proceedings, any conciliation or arbitral or judicial proceedings in respect of a dispute that is the subject matter of the adjudication proceedings. If not satisfied by the decision in adjudication, or if the adjudicator fails to notify his decision within the abovementioned time-frame, the contractor may proceed to invoke the process of Conciliation as follows.

② By A Anjita Soma Sen Ray [Signature] [Signature] [Signature] Jan Mohammad [Signature]

11.4 Conciliation of disputes

- 1) Any party may invoke Conciliation by submitting "Notice of Conciliation" to the Head of the Procuring Organisation. Since conciliation is a voluntary process, within 30 days of receipt of "Notice of Conciliation", the Head of the Procuring Organisation shall notify a sole Conciliator if the other party is agreeable to enter Conciliation. If the other party is not agreeable to Conciliation, the aggrieved party may invoke Arbitration.
- 2) The Conciliator shall proactively assist the parties to reach an amicable settlement independently and impartially within the terms of the contract, within 60 days from the date of appointment of the Conciliator.
- 3) If the parties reach an agreement on a dispute settlement, they shall draw up a written settlement agreement duly signed by the parties and conciliator. When the parties sign the settlement agreement, it shall be final and binding on the parties. The dispute shall be treated as resolved on the date of such agreement.
- 4) The parties shall not initiate, during the conciliation proceedings, any arbitral or judicial proceedings in respect of a dispute that is the subject matter of the conciliation proceedings.
- 5) Termination of Conciliation: Disputes shall remain alive if the conciliation is terminated as follows:
 - (a) By written declaration of the conciliator, after consultation with the parties, to the effect that further efforts at conciliation are no longer justified, on the date of such declaration; or
 - (b) By a written declaration of any party to the conciliator to the effect that the conciliation proceedings are terminated, on the date of such declaration; or
 - (c) If the parties fail to reach an agreement on a settlement of the dispute, within 60 days of the appointment of Conciliator
- 6) On termination of Conciliation, if the dispute is still alive, the aggrieved party shall be free to invoke Arbitration.

11.5 Arbitration Agreement

11.5.1 This Agreement

- 1) This Arbitration Agreement (hereinafter referred to as this "Agreement") relating to this Contract (hereinafter called the "Main Agreement" for this agreement) is made under the provisions of The Arbitration and Conciliation Act, 1996 as amended from time to time and the rules thereunder (hereinafter called The Arbitration Act). This Agreement shall continue to survive termination, completion, or closure of the Main Agreement for 120 days after that.

- 2) Subject to aforesaid provisions, relevant clauses of the contract shall apply to the appointment of arbitrators and arbitration proceedings under this Agreement.
- 3) The Micro, Small and Medium Enterprises Development (MSMED) Act, 2006 provides parties to a dispute (where one of the parties is a Micro or Small Enterprise) to be referred to Micro and Small Enterprises Facilitation Council if the dispute is regarding any amount due under Section 17 of the MSMED Act, 2006. If a Micro or Small Enterprise, being a party to dispute, refers to the provisions in MSMED Act 2006, these provisions shall prevail over this Agreement.

11.5.2 Notice for Arbitration

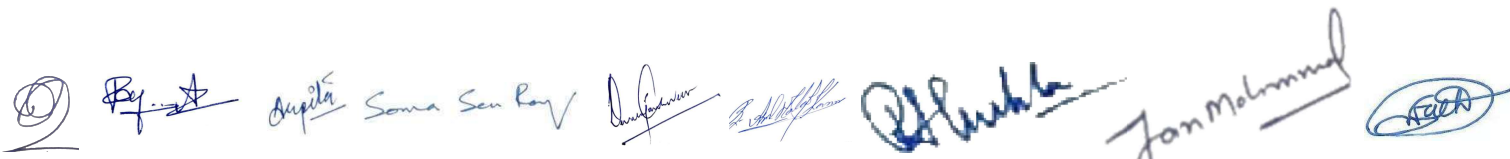
- 1) **Authority to Appoint Arbitrator(s):** For this Arbitration Agreement 'The Appointing Authority', to appoint the arbitrator shall be Head of the Procuring Organisation named in the contract and includes if there be no such authority, the officer who is for the time being discharging the functions of that authority, whether in addition to other functions or otherwise.
- 2) In the event of any dispute as per GCC-clause 11.1 above, if the Adjudicator fails to decide within 60 days (as referred in 11.3 above), or the Conciliation is terminated (as referred in sub-clause 11.4 above) then, parties to the contract, after 60 days but within 120 days of 'Notice of Dispute' (clause 11.1 above) shall request the Appointing Authority through a "Notice for Arbitration" in writing requesting that the dispute or difference be referred to arbitration.
- 3) The "Notice for arbitration" shall specify the matters in question or subject of the dispute or difference indicating the relevant contractual clause, as well as the amount of claim item-wise.

11.5.3 Reference to Arbitration

After appointing Arbitrator(s), the Appointing Authority shall refer the Dispute to them. Only such dispute or difference shall be referred to arbitration regarding which the demand has been made, together with counter-claims or set off. Other matters shall be beyond the jurisdiction of Arbitrator(s)

11.5.4 Appointment of Arbitrator

- 1) **Qualification of Arbitrators:**
 - (a) In the case of retired officers of The Procuring organisation, he shall have retired in the rank of Senior administrative grade (or equivalent) and shall have retired at least 1 years prior and must not be over 70 years of age on the date of Notice for arbitration.
 - (b) He/ they shall not have had an opportunity to deal with the matters to which the contract relates or who, in the course of his/ their duties as officers of the

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Procuring Organisation, expressed views on any or all of the matters under dispute or differences. A certification to this effect (as per Format 1.4) shall be taken from Arbitrators. The proceedings of the Arbitral tribunal or the award made by such Tribunal shall, however, not be invalid merely for the reason that one or more arbitrators had in the course of his service, an opportunity to deal with the matters to which the contract relates or who in the course of his/ their duties expressed views on all or any of the matters under dispute.

- (c) An Arbitrator may be appointed notwithstanding the total no. of arbitration cases in which he has been appointed in the past.
- (d) Not be other than the person appointed by The Appointing Authority and that if for any reason that is not possible, the matter shall not be referred to arbitration at all.

2) Replacement of Arbitrators

If one or more of the arbitrators appointed as above refuses to act as arbitrator, withdraws from his office as arbitrator, or in the event of the arbitrator dying, neglecting/ unable or unwilling or refusing to act for any reason, or his award being set aside by the court for any reason, or in the opinion of The Appointing Authority fails to act without undue delay, the Appointing Authority shall appoint new arbitrator/ arbitrators to act in his/ their place in the same manner in which the earlier arbitrator/ arbitrators had been appointed. Such a re-constituted Tribunal may, at its discretion, proceed with the reference from the stage at which it was left by the previous arbitrator (s).

3) Appointment of Arbitrator:

- (a) In cases where the total value of all claims in question added together does not exceed INR 50,00,000/- (Rupees Fifty Lakh only), the Arbitral Tribunal shall consist of sole Arbitrator. For this purpose, The Appointing Authority shall send to the contractor, within 60 days from the day of receipt of a written and valid notice for arbitration, a panel of at least four (4) names of retired officers, duly indicating their retirement dates.
- (b) The contractor shall be asked to nominate at least two names out of the panel for appointment as his nominee within 30 days from the dispatch date of the request by The Appointing Authority. The Appointing Authority shall appoint at least one out of them as the sole arbitrator within 30 days from the receipt of the names of the contractor's nominees.
- (c) In cases where the total value of all claims in question added together exceeds INR 50,00,000/- (Rupees Fifty Lakh only), the Arbitral Tribunal shall consist of three (3) retired Officers of the Procuring Organisation. For this purpose, The Appointing

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Authority shall send a panel of at least four (4) names of such Officer(s) empanelled to work as Arbitrators duly indicating their retirement date to the contractor within 60 days from the day when a written and The Appointing Authority receives valid demand for arbitration.

- (d) The contractor shall be asked to nominate at least 2 names out of the panel for appointment as his nominee within 30 days from the dispatch date of the request by The Appointing Authority. The Appointing Authority shall appoint at least one out of them as the contractor's nominee. It shall also simultaneously appoint the balance number of arbitrators either from the panel or outside the panel, duly indicating the 'Presiding Arbitrator' from amongst the 3 arbitrators so appointed, within 30 days from the receipt of the names of Contractor's nominees.
- (e) If the contractor does not suggest his nominees for the arbitral tribunal within the prescribed timeframe, The Appointing Authority shall proceed for appointment of the arbitral tribunal within 30 days of the expiry of such time provided to the contractor.

11.5.5 Failure to appoint Arbitrators.

If The Appointing Authority fails to appoint an arbitrator within 60 (sixty) days, then subject to the survival of this Arbitration Agreement, in international commercial arbitration, the Supreme Court of India shall designate the arbitral institution for the appointment of arbitrators. In case of national arbitrations, the High Court shall designate arbitral institutions. The Arbitration Council of India must have graded these arbitration institutions. These arbitral institutions must complete the selection process within thirty days of accepting the request for the arbitrator's appointment.

11.5.6 The Arbitral Procedure

- 1) **Effective Date of Entering Reference:** The arbitral tribunal shall be deemed to have entered the reference on the date on which the arbitrator(s) have received notice of their appointment. All subsequent time limits shall be counted from such date.
- 2) **Seat and Venue of Arbitration:** The seat of arbitration shall be the place from which the Letter of Award or the contract is issued. The venue of arbitration shall be the same as the seat of arbitration. However, in terms of section 20 of The Arbitration Act, the arbitrator, at his discretion, may determine a venue other than the seat of the arbitration without in any way affecting the legal jurisdictional issues linked to the seat of the arbitration.
- 3) If the Adjudication and/ or Conciliation mechanisms had not been exhausted before such reference to Arbitration, the Arbitrator should ask the aggrieved party to approach designated authority for such mechanisms before the Arbitration proceedings are started.

② By A Anjita Soma Sen Ray [Signature] [Signature] [Signature] [Signature]

- 4) The claimant shall submit to the Arbitrator(s) with copies to the respondent his claims stating the facts supporting the claims along with all the relevant documents and the relief or remedy sought against each claim within 30 days from the date of appointment of the Arbitral Tribunal unless otherwise extension has been granted by Arbitral Tribunal.
- 5) On receipt of such claims, the respondent shall submit its defence statement and counter claim(s), if any, within 60 days of receipt of the copy of claims, unless otherwise extension has been granted by Arbitral Tribunal.
- 6) No new claim shall be added during proceedings by either party. However, a party may amend or supplement the original claim or defence thereof during arbitration proceedings subject to acceptance by the Tribunal having due regard to the delay in making it.
- 7) Statement of claims, counterclaims and defence shall be completed within six months from the effective reference date.
- 8) **Oral arguments to be held on a day-to-day basis:** Oral arguments as far as possible shall be heard by the arbitral tribunal on a day-to-day basis, and no adjournments shall be granted without sufficient cause. The arbitrator (s) may impose an exemplary cost on the party seeking adjournment without sufficient cause.
- 9) **Award within 12 (twelve) months:** The arbitral tribunal is statutorily bound to deliver an award within 12 (twelve) months from the date when the arbitral tribunal enters reference. The award can be delayed by a maximum of six months only under exceptional circumstances where all parties consent to such extension of time. The court's approval shall be required for further extension if the award is not made out within such an extended period. During the period of an application for extension of time is awaiting before the court, the arbitrator's proceedings shall continue until the disposal of the application.
- 10) **Fast Track Procedure:** The parties to arbitration may choose to opt for a fast-track procedure either before or after the commencement of the arbitration. The award in fast-track arbitration is to be made out within six months, and the arbitral tribunal shall be entitled to additional fees. The salient features of the fast-track arbitration are:
 - (a) The dispute is to be decided based on written pleadings only.
 - (b) Arbitral Tribunal shall have the power to call for clarifications in addition to the written pleadings where it deems necessary.
 - (c) An oral hearing may be held only if all the parties request or the arbitral tribunal considers it necessary.
 - (d) The parties are free to decide the fees of the arbitrator(s) for fast-track procedure.

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- 11) Powers of Arbitral Tribunal to grant Interim Relief:** The parties to arbitration may approach the arbitral tribunal for seeking interim relief on the grounds available under section 9 of the act. The tribunal has the powers of a court while making interim awards in the proceedings before it.
- 12) Confidentiality:** As provided in Section 42A of The Arbitration Act, all the details and particulars of the arbitration proceedings shall be kept confidential, except in certain situations like if the disclosure is necessary for the implementation or execution of the arbitral award.
- 13) Obligation During Pendency of Arbitration:** Performance of the contract shall, unless otherwise directed by the Procuring Entity, continue during the arbitration proceedings, and no payment due or payable by the Procuring Entity shall be withheld on account of such proceedings, provided; however, it shall be open for Arbitral Tribunal to consider and decide whether or not the performance of the contract or payment therein should continue during arbitration proceedings.

11.5.7 The Arbitral Award

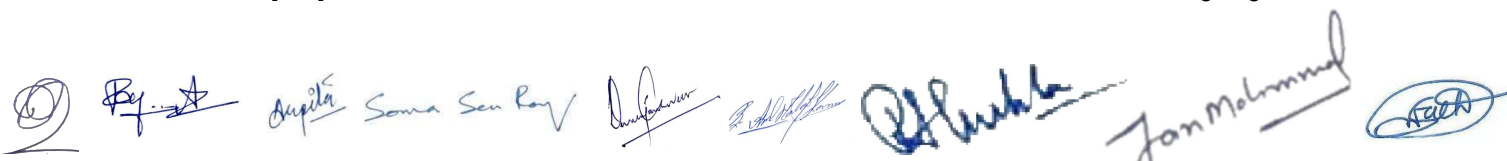
- 1)** In the case of the Tribunal, comprising of three members, any ruling on award shall be made by a majority of members of the Tribunal. In the absence of such a majority, the views of the Presiding Arbitrator shall prevail.
- 2)** The arbitral award shall state item-wise the sum and reasons upon which it is based. The analysis and reasons shall be detailed enough so that the award can be inferred from it.
- 3)** It is further a term of this arbitration agreement that where the arbitral award is for the payment of money, no interest shall be payable on whole or any part of the money for any period till the date on which the award is made in terms of Section 31 (7) (a) of The Arbitration Act.
- 4)** The award of the arbitrator shall be final and binding on the parties to this contract.
- 5)** A party may apply for corrections of any computational errors, typographical or clerical errors, or any other error of similar nature occurring in the award or interpretation of a specific point of the award to the Tribunal within 60 days of receipt of the award.
- 6)** A party may apply to the Tribunal within 60 days of receiving the award to make an additional award as to claims presented in the arbitral proceedings but omitted from the arbitral award.

11.5.8 Savings

The Arbitral Tribunal shall decide any matter related to Arbitration not covered under this Arbitration Agreement as per the provisions of The Arbitration Act.

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Procuring Organisation



11.5.9 Cost of Arbitration and fees of the Arbitrator(s)

- 1) The concerned parties shall bear the cost of arbitration in terms of section 31 (A) of The Arbitration Act. The cost shall inter-alia include fees of the Arbitrator. Further, the fees payable to the Arbitrator shall be governed by instructions issued on the subject by the Procuring Entity and/ or the Government from time to time, in line with the Arbitration and Conciliation Act, irrespective of the fact whether the Arbitrator is appointed by the Procuring Entity or the Government under this clause or by any court of law unless directed explicitly by Hon'ble court otherwise on the matter. A sole arbitrator shall be entitled to a 25% extra fee over such a prescribed fee.
- 2) The arbitrator shall be entitled to a 50 percent extra fee if the award is made within 6 months in terms of provisions contained in section 29(A) (2) of The Arbitration Act.
- 3) Besides the above, Arbitrator shall also be entitled to this extra fee in cases where Fast Track Procedure in terms of section 29 (B) of The Arbitration Act is followed.

12. Defaults, Breaches, Termination, and closure of Contract

12.1 Termination due to Breach, Default, and Insolvency

12.1.1 Defaults and Breach of Contract

In case the contractor undergoes insolvency or receivership; neglects or defaults, or expresses inability or disinclination to honour his obligations relating to the performance of the contract or ethical standards or any other obligation that substantively affects the Procuring Entity's rights and benefits under the contract, it shall be treated as a breach of Contract. Such defaults could include inter-alia:

- 1) **Default in Performance and Obligations:** if the contractor fails to deliver any or all of the Goods or fails to perform any other contractual obligations (including Code of Integrity or obligation to maintain eligibility and Qualifications based on which contract was awarded) within the period stipulated in the contract or within any extension thereof granted by the Procuring Entity.
- 2) **Insolvency:** If the contractor being an individual or if a firm, any partner thereof, shall at any time, be adjudged insolvent or shall have a receiving order or order for the administration of his estate made against him or shall take any proceeding for composition under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or enter into any assignment or composition with his creditors or suspend payment or if the firm be dissolved under the Partnership Act, or

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- 3) **Liquidation:** if the contractor is a company being wound up voluntarily or by order of a Court or a Receiver, Liquidator or Manager on behalf of the Debenture-holders is appointed, or circumstances shall have arisen which entitle the Court or Debenture-holders to appoint a Receiver, Liquidator or Manager

12.1.2 Notice for Default:

As soon as a breach of contract is noticed, a show-cause 'Notice of Default' shall be issued to the contractor, giving two weeks' notice, reserving the right to invoke contractual remedies. After such a show-cause notice, all payments to the contractor would be temporarily withheld to safeguard needed recoveries that may become due on invoking contractual remedies.

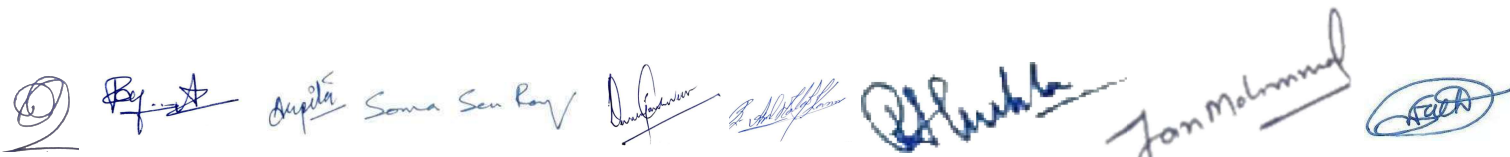
12.1.3 Terminations for Default

- 1) **Notice for Termination for Default:** In the event of unsatisfactory resolution of 'Notice of Default' within two weeks of its issue as per sub-clause above, the Procuring Entity, if so decided, shall by written Notice of Termination for Default sent to the contractor, terminate the contract in whole or in part, without compensation to the contractor.
- 2) Such termination shall not prejudice or affect the rights and remedies, including under sub-clause below, which have accrued and/ or shall accrue to the Procuring Entity after that.
- 3) Unless otherwise instructed by the Procuring Entity, the contractor shall continue to perform the contract to the extent not terminated.
- 4) All warranty obligations, if any, shall continue to survive despite the termination.

12.1.4 Contractual Remedies for Breaches/Defaults or Termination for Default

If there is an unsatisfactory resolution within this period, the Procuring Entity shall take one; or more of the following contractual remedies.

- 1) Temporary withhold payments due to the contractor till recoveries due to invocation of other contractual remedies are complete.
- 2) Call back any loaned property or advances of payment, if any, with the levy of interest at the prevailing rate (MIBID - Mumbai Interbank Bid Rate).
- 3) Recover liquidated damages and invoke denial clause for delays.
- 4) Encash and/ or Forfeit performance or other contractual securities.
- 5) Prefer claims against insurances, if any.
- 6) Terminate contract for default, fully or partially including its right for Risk-and-Cost Procurement as per following sub-clause.

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- 7) Risk and Cost Procurement:** In addition to termination for default, the Procuring Entity shall be entitled, and it shall be lawful on his part, to procure Goods similar to those terminated, with such terms and conditions and in such manner as it deems fit at the “Risk and Cost” of the contractor. Such ‘Risk and Cost Procurement’ must be contracted within six months from the breach of Contract. The Contractor shall be liable for any loss which the Procuring Entity may sustain on that account provided the procurement, or, if there is an agreement to procure, such agreement is made. The Contractor shall not be entitled to any gain on such procurement, and the manner and method of such procurement shall be in the entire discretion of the Procuring Entity. It shall not be necessary for the Procuring Entity to notify the contractor of such procurement. It shall, however, be at the discretion of the Procuring Entity to collect or not the security deposit from the firm/ firms on whom the contract is placed at the risk and cost of the defaulted firm.

Note: Regarding the Goods which are not readily available in the market and where procurement difficulties are experienced, the period for making risk procurement shall be nine months instead of six months provided above.

- 8)** Initiate proceedings in a court of law for the transgression of the law, tort, and loss, not addressable by the above means.

12.1.5 Limitation of Liability

Except in cases of criminal negligence or wilful misconduct, the aggregate liability of the contractor to the Procuring Entity, whether under the contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the contractor to indemnify the Procuring Entity concerning IPR infringement.

12.2 Termination for Default/ Convenience of Procuring Entity and Frustration

12.2.1 Notice for Determination of Contract

- 1)** The Procuring Entity reserves the right to terminate the contract, in whole or in part for its (the Procuring Entity’s) convenience or frustration of contract as per sub-clause below, by serving written ‘Notice for Determination of Contract’ on the contractor at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Procuring Entity or the frustration of the contract. The notice shall also indicate inter-alia, the extent to which the contractor’s performance under the contract is terminated, and the date with effect from which such termination shall become effective.

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- 2) Such termination shall not prejudice or affect the rights and remedies accrued and/ or shall accrue after that to the Parties.
- 3) Unless otherwise instructed by the Procuring Entity, the contractor shall continue to perform the contract to the extent not terminated.
- 4) All warranty obligations, if any, shall continue to survive despite the termination.
- 5) The Goods and incidental Works/ Services that are complete and ready in terms of the contract for delivery and performance within thirty days after the contractor's receipt of the notice of termination shall be accepted by the Procuring Entity as per the contract terms. For the remaining Goods and incidental Works/ Services, the Procuring Entity may decide:
 - (a) To get any portion of the balance completed and delivered at the contract terms, conditions, and prices; and/ or
 - (b) To cancel the remaining portion of the Goods and incidental Works/ Services and compensate the contractor by paying an agreed amount for the cost incurred by the contractor, if any, towards the remaining portion of the Goods and incidental Works/ Services.

12.2.2 Frustration of Contract

- 1) **Notice of Frustration Event:** Upon a supervening cause occurring after the effective date of the contract, including a change in law, beyond the control of either party whether as a result of the Force Majeure clause or within the scope of section 56 of the Indian Contract Act, 1872, that makes it impossible to perform the contract within a reasonable timeframe, the affected party shall give a 'Notice of Frustration Event' to the other party giving justification. The parties shall use reasonable efforts to agree to amend the contract, as may be necessary to complete its performance. However, if the parties cannot reach a mutual agreement within 60 days of the initial notice, the Procuring Entity shall issue a 'Notice for Determining the contract' and terminate the contract due to its frustration as in the sub-clause above.
- 2) However, the following shall not be considered as such a supervening cause.
 - (a) Lack of commercial feasibility or viability or profitability or availability of funds
 - (b) if caused by either party's breach of its obligations under this Contract or failure to act in good faith or use commercially reasonable due diligence to prevent such an event.

12.3 Closure of Contract

12.3.1 No Claim Certificate and Release of Contract Securities



After mutual reconciliations of outstanding payments and assets on either side, the contractor shall submit a 'No-claim certificate' to the Procuring Entity requesting the release of its contractual securities, if any. The Procuring Entity shall release the contractual securities without any interest if no outstanding obligation, asset, or payments are due from the contractor. The contractor shall not be entitled to make any claim whatsoever against the Procuring Entity under or arising out of this Contract, nor shall the Procuring Entity entertain or consider any such claim, if made by the contractor, after he shall have signed a "No Claim" Certificate in favour of the Procuring Entity. The Contractor shall be debarred from disputing the correctness of the items covered by the "No Claim" Certificate or demanding a clearance to arbitration in respect thereof.

12.3.2 Closure of Contract

The contract shall stand closed upon

- 1) successful performance of all obligations by both parties, including completion of warrantee obligations and final payment.
- 2) termination and settlements after that, if any, as per GCC-clause 12.1 or 12.2 above.

13. Code of Integrity in Public Procurement; Misdemeanours and Penalties

13.1 Code of Integrity

Procuring authorities as well as bidders, suppliers, contractors, and consultants - should observe the highest standard of ethics and should not indulge in following prohibited practices, either directly or indirectly, at any stage during the Tender Process or during the execution of resultant contracts:

- 1) **"Corrupt practice"** - making offer, solicitation or acceptance of a bribe, reward or gift or any material benefit, in exchange for an unfair advantage in the Tender Process or to otherwise influence the Tender Process;
- 2) **"Fraudulent practice"** - any omission or misrepresentation that may mislead or attempt to mislead so that financial or other benefits may be obtained or an obligation avoided. Such practices include a false declaration or false information for participation in a tender process or to secure a contract or in the execution of the contract;
- 3) **"Anti-competitive practice"** - any collusion, bid-rigging or anti-competitive arrangement, or any other practice coming under the purview of the Competition Act, 2002, between two or more bidders, with or without the knowledge of the Procuring Entity, that may impair the transparency, fairness, and the progress of the Tender Process or to establish bid prices at artificial, non-competitive levels;

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- 4) **“Coercive practice”** - harming or threatening to harm persons or their property to influence their participation in the Tender Process or affect the execution of a contract;
- 5) **“Conflict of interest”** –participation by a bidding firm or any of its affiliates who are either involved in the Consultancy Contract to which this procurement is linked; or if they are part of more than one bid in the procurement; or if their personnel have a relationship or financial or business transactions with any official of procuring entity who are directly or indirectly related to tender or execution process of contract; or improper use of information obtained by the (prospective) bidder from the Procuring Entity with an intent to gain unfair advantage in the Tender Process or for personal gain;
- 6) **“Obstructive practice”** - materially impede procuring entity’s investigation into allegations of one or more of the above mentioned prohibited practices either by deliberately destroying, falsifying, altering; or by concealing of evidence material to the investigation; or by making false statements to investigators and/ or by coercive practices mentioned above, to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or by impeding the Procuring Entity’s rights of audit or access to information;

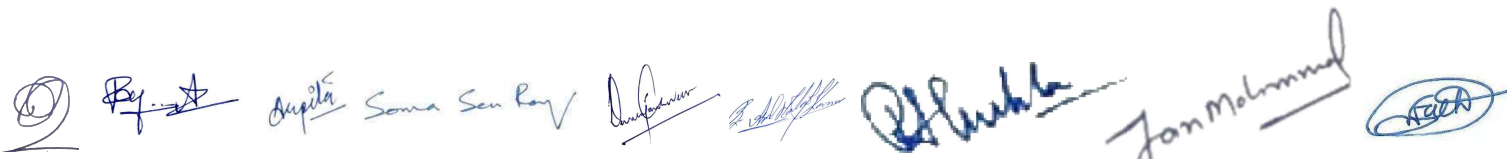
13.2 Obligations for Proactive Disclosures:

- 1) Procuring authorities, bidders, suppliers, contractors, and consultants are obliged under this Code of Integrity to *suo-moto* proactively declare any conflict of interest (coming under the definition mentioned above - pre-existing or as and as soon as these arise at any stage) in any Tender Process or execution of the contract. Failure to do so shall amount to a violation of this code of integrity.
- 2) Any bidder must declare, whether asked or not in a bid-document, any previous transgressions of such code of integrity during the last three years or of being under any category of debarment by the Central Government or by the Ministry/ Department of the Procuring Organisation from participation in Tender Processes. Failure to do so shall amount to a violation of this code of integrity.

13.3 Misdemeanours and Penalties

The following shall be considered misdemeanours - if a bidder/ contractor either directly or indirectly, at any stage during the Tender Process or during the execution of resultant contracts:

- 1) commits any of the following misdemeanours:
 - (a) violates the code of Integrity mentioned in GCC-clause 13.1 or GCC-Clause 10.1.6 (Fall clause) or the Integrity Pact if included in the Tender/ Contract;

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- (b) any other misdemeanour, e.g., supply of sub-standard quality of material/ services/ work or non-performance or abandonment of contract or failure to abide by 'Bid Securing Declaration'.

2) commits any of the following misdemeanours:

(a) has been convicted of an offence:

- (i) under the Prevention of Corruption Act, 1988; or
- (ii) the Indian Penal Code or any other law for the time being in force for causing any loss of life or property or causing a threat to public health as part of the execution of a public procurement contract.

(b) is determined by the Government of India to have doubtful loyalty to the country or national security consideration.

(c) Employs a government servant, who has been dismissed or removed on account of corruption or employs a non-official convicted for an offence involving corruption or abetment of such an offence, in a position where he could corrupt government servants or employs a government officer within one year of his retirement, who has had business dealings with him in an official capacity before retirement.

13.4 Penalties for Misdemeanours

Without prejudice to and in addition to the rights of the Procuring Entity to other remedies as per the Tender-documents or the contract, If the Procuring Entity concludes that a (prospective) bidder/ contractor directly or through an agent has committed a misdemeanour in competing for the tender or in executing a contract, the Procuring Entity shall be entitled, and it shall be lawful on his part to take appropriate measures, including the following:

13.4.1 if his bids are under consideration in any procurement

- 1) Enforcement of Bid Securing Declaration in lieu of forfeiture or encashment of Bid Security.
- 2) calling off of any pre-contract negotiations, and;
- 3) rejection and exclusion of Bidder from the Tender Process

13.4.2 if a contract has already been awarded

- 1) Termination of Contract for Default and availing all remedies prescribed thereunder;
- 2) Encashment and/ or Forfeiture of any contractual security or bond relating to the procurement;

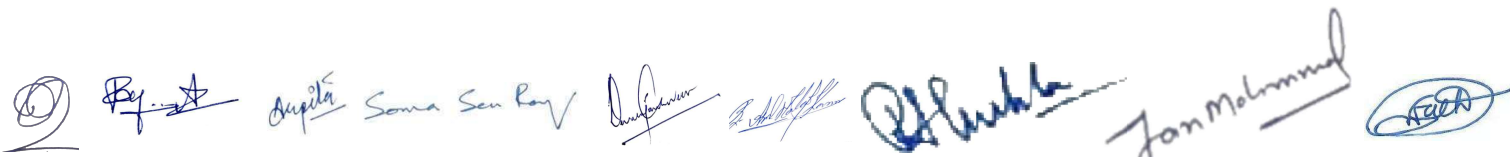
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- 3) Recovery of payments including advance payments, if any, made by the Procuring Entity along with interest thereon at the prevailing rate (MIBID - Mumbai Interbank Bid Rate);

13.4.3 Remedies in addition to the above:

In addition to the above penalties, the Procuring Entity shall be entitled, and it shall be lawful on his part to:

- 1) File information against Bidder or any of its successors, with the Competition Commission of India for further processing, in case of anti-competitive practices;
- 2) Initiate proceedings in a court of law against Bidder or any of its successors, under the Prevention of Corruption Act, 1988 or the Indian Penal Code or any other law for transgression not addressable by other remedies listed in this sub-clause.
- 3) Remove Bidder or any of its successors from the list of registered suppliers for a period not exceeding two years. Suppliers removed from the list of registered vendors or their related entities may be allowed to apply afresh for registration after the expiry of the period of removal.
- 4) Initiation of suitable disciplinary or criminal proceedings against any individual or staff found responsible.
- 5) Debar, a bidder/ contractor from participation in future procurements without prejudice to Procuring Entity's legal rights and remedies. Debarment shall automatically extend to all the allied firms of the debarred firm. In the case of Joint Venture/ consortium, all its members shall also stand similarly debarred:
 - (a) A Ministry/ Department (or any of its CPSUs, attached offices, autonomous bodies) may debar a bidder or any of its successors from participating in any Tender Process undertaken by all its procuring entities for a period not exceeding two years commencing from the date of debarment for misdemeanours listed in sub-clause GCC 13.3 -1) above. The Ministry/Department shall maintain such a list which shall also be displayed on their website.
 - (b) Central Government (Department of Expenditure (DoE), Ministry of Finance) may debar a bidder or any of its successors from participating in any Tender Process undertaken by all its procuring entities for a period not exceeding three years commencing from the date of debarment for misdemeanours listed in sub-clause GCC 13.3 - 2) above. DoE shall maintain such a list which shall be displayed on Central Public Procurement Portal (CPPP).

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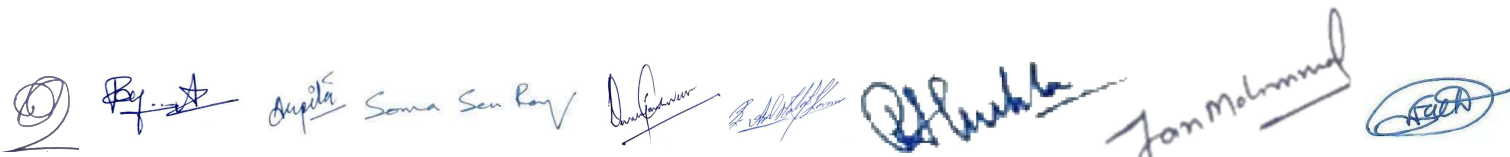
Section V: Special Conditions of Contract (SCC)

Document No. CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

(Ref ITB-clause 9.2)

Note for Bidders: Following Special Conditions of Contract (SCC) shall apply for this procurement. These Special Conditions shall modify/ substitute/ supplement the corresponding (GCC) clauses as indicated below. Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

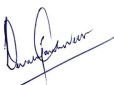
GCC Clause No.	Topic	Modified/ replaced by SCC Provisions
GCC 1, 2, 3 and 4: General, The Contract, Governing Laws and Jurisdiction, Communications		
GCC 1.1, 1.2, 1.3, 1.4	Definitions and Abbreviations	Applicable as per GCC
GCC 2.1	Language of Contract	English
GCC 2.5	Contract Documents	No additional contract document requirement
GCC 3.1	Governing Laws and jurisdiction	The Contract shall be interpreted in accordance with the laws of Union of India. This contract is subject to Indian Law. The place of performance and jurisdiction is the Registered Office of the Principal, i.e., New Delhi.
GCC 4.1, 4.3	Communications and notices	No additional communication requirement
GCC 4.2	Persons Signing Communications	As per GCC 4.2
GCC 5: Contractor's Obligations and Restrictions on its Rights		
GCC 5.6	Confidentiality and Secrecy of information	As per GCC
GCC 5.7	Performance Bond/ Security	(i) Successful bidder shall submit performance security within thirty (30) days from date of dispatch of supply order/award of contract by the purchaser or within twenty-one (21)



		days from the receipt of supply order by the supplier whichever is earlier. (ii) The purchaser may consider annulment/cancellation of supply order/ award of contract if performance security not received in stipulated time. (iii) There is no relaxation/exemption in submitting of performance security. (iv) Twenty five percent (25%) of total contract value will be paid in two instalment as advance payment(Twenty Percent (20%) of total contract value will be paid as First instalment after issuance of supply order and second instalment of Five Percent (5%) of total contract value will be paid after successful completion of Detailed Design Review (DDR) as per Section VII, Clause no 16 of the tender document), 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 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 would be deemed as interest bearing advance payment at the interest rate of GPF + 2% to be compounded quarterly and











		recovered by IMD from the 110% Unconditional Advance Bank Guarantee. (v) The supplier shall furnish performance security to the purchaser. Performance Bank Guarantee (PBG) of 5% shall be calculated based on total value of the contract. The same shall be retained by IMD till the successful execution of the contract, i.e. after 3 year warranty followed by 7 year COAMC + 60 days. Other details is available at Section IV: General Conditions of Contract (GCC) (Para - 5.8, Performance Bond/ Security). (vi) <u>Performance Security has to be submitted irrespective of its registration NSIC etc. Performance security is not relaxed to any supplier/service provider. Submission of Performance Security is must for all suppliers/service providers.</u> (vii) Performance Security shall be in the form of Bank Guarantee issued by a Commercial Bank doing government business in the prescribed form as per Format no 1.4 in favour of the purchaser. <u>In the event of any amendment issued to the contract, the supplier shall, within twenty-one (21) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended in the form of Bank Guarantee.</u> (viii) The purchaser will release the











		Performance Security without any interest to the supplier/ service provider on completion of the supplier's all contractual obligations including the 3 years warranty followed by 7 years COAMC obligations. The supplier shall submit pre receipt for obtaining back their security.
GCC 5.9	Book Examination Clause	NA
GCC 5.10	Custody and Return of the Procuring Entity's Materials/ Equipment/ Documents loaned to Contractor	NA
GCC 5.11	Compliance with Labour Codes	Yes
GCC 6: Scope of Supply and Technical Specifications		
GCC 6.1, 6.6	Incidental Works/ Services, Spares	Applicable as per Tender Document
GCC 6.3	Country of Origin and Minimum Local Content	As per MII Policy
GCC 6.4	Option Quantity Clause	The buyer may increase or decrease the quantity by +/-20% at the same rate and terms & conditions of procurement as per manual for procurement of goods .
GCC 6.5	Spares in Supply of Equipment	Nil
GCC 6.6	Warranty/ Guarantee	The warranty shall be <u>Onsite warranty for three years after successful commissioning of systems.</u> All Stores/Software/Systems to be supplied should be free from all defects and faults in material workmanship and manufacture. They should be of the highest grade and consistent with the established and generally accepted standards for material of the type used and in full







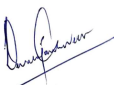




		conformity with the specifications, drawings, or samples and shall, if operable, operate properly. <u>The Seller shall be bound to furnish a clear written warranty regarding the same.</u> The Seller will be required to replace them free of cost inclusive of all freight and handling charges. The supplier shall provide warranty certificate from the OEM for the goods along with date of manufacturing of stores/products. 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. Transportation cost and Octroi etc. for sending defective parts for repairs and sending back repaired or replaced one to IMD site(s), shall be borne by supplier itself.
GCC 7 and 8: Inspection, Quality Assurance, Packing, Transportation, Insurance and Receipt		
GCC 7.1	Tests and Inspections	i. The bidder shall submit detailed testing plans for Factory Acceptance Testing (FAT) for fully integrated radar system prior to shipment and Site Acceptance Test (SAT) after installation at site for system acceptance. The test plan shall require concurrence of IMD. ii. During the FAT, cost of travel, per diem charges and charges for boarding/lodging etc. for IMD personnel will be borne by IMD, Government of India. iii. The objective of the tests shall be the verification of performance of the system as per the specifications and functional requirements as per











		TENDER DOCUMENT. iv. As per the mutually agreed test procedures, FAT shall be carried out at the factory premises prior to shipment. The equipment shall be shipped only after satisfactory conclusion of the pre-shipment Factory acceptance testing (FAT). v. As per the mutually agreed test procedures, acceptance test should be carried out at each radar site after installation. Successful contractor shall arrange for necessary test equipment, man-power etc. vi. 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. vii. Within 30 days of installation of each system, the successful contractor should Site acceptance Test (SAT) of the radar and its peripherals as a whole system.
GCC 8.	Packing, Transportation and Receipt	As per GCC
GCC 8.4.4	Distribution of Despatch Documents	As per GCC
GCC 9: Terms of Delivery and Delays		
GCC 9.5	Part shipment allowed	As per GCC
GCC 9.12	Liquidated Damages	LIQUIDATED DAMAGES CLAUSE (LD) FOR DELAYED STORES & SERVICES:











		a) The successful bidder shall deliver the goods and perform all related services—including delivery, installation, acceptance/commissioning, and training—within the time schedule specified by IMD in the 'List of Requirements/Technical Specifications' and the Contract Agreement; since time is of the essence, any delay may lead to forfeiture of Performance Security and enforcement of the Liquidated Damages clause. b) The delivery date shall be considered as the date on which all the items/stores/materials/services etc., have been delivered at site as per contract-agreement/Supply/Purchase order. Any delay shall be taken into account for penalty/LD purpose as per term/conditions of the contract. c) Penalty/Liquidated damages shall be calculated for contract value of each DWR at respective site including the element of taxes etc., d) If the Supplier fails to supply, install, and commission the DWR system as per the tender requirement and within the stipulated milestones in the Delivery Schedule, IMD may, without prejudice to other contractual rights and remedies, levy liquidated damages at the rate of 0.5% of the contract value of each DWR per week of delay—on delayed supply and/or services—subject to a maximum of 5% of the contract value of each DWR at the respective site. In case of inordinate delay (section IV Clause no







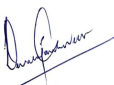




		9.10 above) this maximum deduction shall be 10% of the total contract value. e) L/D shall not be imposed under force majeure conditions. f) Once the maximum penalty (L/D) is reached, IMD may also consider following: i. Forfeiture of the performance security. ii. Termination of the contract for default. iii. Black Listing of the firm; if the firm will not adhere to the IMD terms and conditions of the contract. g) Successful bidder shall not be held responsible for delay in delivery of stores and their installation under the following reasons: i. Delay in providing Entry permits/Road Permits (if required) to Successful bidder by IMD. ii. Delay in providing proper site(s) by IMD to Successful bidder, for installation of stores. Facilities required for project to be provided to successful bidder by IMD. iii. Delay in providing No Objection Certificate (NOC), required from any other government agency/agencies.







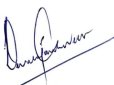





		h) Due to delay in any or all of the above conditions the prescribed date of delivery shall be extended by the number of days of delay. i) Successful bidder shall inform to IMD directly in writing regarding any delay on part of IMD.
GCC 10: Prices and Payments		
GCC 10.1.5	Price Variations	Nil
GCC 10.1.6	Fall Clause	As per GCC
GCC 10.2	Taxes and Duties	As per GCC
GCC 10.3.1, 10.3.2	Terms and Mode of payments	<u>Payment Terms:</u> Payment, as per term mentioned below, shall be made subject to recoveries, if any, by way of liquidated damages /penalty clause /TDS or any other charges as per terms & conditions of contract if not specified elsewhere in the document. 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 in two instalment as advance payment(Twenty Percent (20%) of total contract value will be paid as First instalment after issuance of supply order and second instalment of Five Percent (5%) of total contract value will be paid after successful completion of Detailed Design Review (DDR) as per Section VII, Clause no 16 of the tender document), as per GFR clause 172-1 (ii)(a) against 110% Unconditional Advance Bank Guarantee (as per













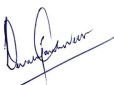
		format given at Format 1.1.1) of the advance to be submitted by the firm to support the bidder in design and manufacturing of high-end engineering goods. Such Bank Guarantee shall remain effective until the advance payment has been fully repaid / adjusted. And if the Contract is terminated due to default of the Contractor, the advance payment would be deemed as interest bearing advance payment at the interest rate of GPF + 2% to be compounded quarterly and recovered by IMD from the 110% Unconditional Advance Bank Guarantee. c) Thirty five percent (35%) of Contract Value (Cumulative to Sixty percent (60%) 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 (Cumulative to Seventy five Percent (75%)) 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 (Cumulative to Eighty Percent (80%)) 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

Section V: Special Conditions of Contract (SCC)

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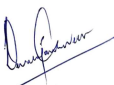





		DWR site, as per the table below:																			
		<table><tr><th>Warranty Year</th><th>Percentage of total project cost to be released</th></tr><tr><td>1st</td><td>1%</td></tr><tr><td>2nd</td><td>2%</td></tr><tr><td>3rd</td><td>2%</td></tr><tr><td>Total</td><td>5%</td></tr></table>		Warranty Year	Percentage of total project cost to be released	1 st	1%	2 nd	2%	3 rd	2%	Total	5%								
		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 (Cumulative to Hundred Percent (100%)) shall be made quarterly during the seven Years COAMC 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 DWR site, as per the table below:																			
		<table><tr><th>COAMC Year</th><th>Percentage of total project cost to be released</th></tr><tr><td>1st</td><td>0.4%</td></tr><tr><td>2nd</td><td>1.2%</td></tr><tr><td>3rd</td><td>2.0%</td></tr><tr><td>4th</td><td>2.8%</td></tr><tr><td>5th</td><td>3.6%</td></tr><tr><td>6th</td><td>4.4%</td></tr><tr><td>7th</td><td>5.6%</td></tr><tr><td>Total</td><td>20%</td></tr></table>		COAMC 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%
		COAMC 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%																				
g) The Payment during Warranty Period:																					







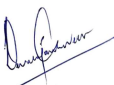





		The payment during Warranty Period will be made after satisfactory operation of DWR as per IMD's operational requirement and as well as availability of DWR & AWS, Disdrometer data at respective DWR site on quarterly basis as per TENDER DOCUMENT terms and duly certified by IMD. h) The Payment during COAMC: The payment during COAMC period will be made after satisfactory operation of DWR as per IMD's operational requirement and as well as availability of DWR, AWS & Disdrometer data at respective DWR site on quarterly basis as per TENDER DOCUMENT terms and duly certified by IMD. i) The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to respective consignees. j) Bills/invoices must be submitted separately for stores and services. k) Three copies of supplier' s number, goods description, total amount, invoice showing contract quantity, unit price. l) Consignee Receipt Certificate in original issued by the authorized representative of IMD. m) Copies of delivery Challan identifying contents of each package. n) Inspection certificate by the nominated Inspection agency , if any. Insurance












		Certificate. o) Final Acceptance Report from consignee. p) The successful bidder shall submit particulars of his bank account required for making payments. i. Account Number ii. Bank Name iii. Branch Name iv. Address v. IFSC code vi. MICR No. vii. Mobile No. viii. SWIFT code etc.
GCC 10.3.3	Payment Conditions	a) Payment: All payments, IMD prefers to make Electronic Transfers (RTGS) / (NEFT) / through Letter of Credit (LC) b) All payments due under the Contract shall be paid after deduction of statutory levies at source (like ESIC, Income Tax, etc.), wherever applicable. c) Payment shall be made for each radar and other associated systems including AWS and disdrometers as proposed in the tender per site. d) Twenty five percent (25%) of total contract value will be paid in two instalment as advance payment(Twenty Percent (20%) of total contract value will be paid as First instalment after issuance of supply order and second instalment of Five Percent (5%) of total contract value will be paid after successful completion of Detailed Design Review (DDR) as per Section VII,











		Clause no 16 of the tender document), 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 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 payment at the interest rate of GPF + 2% to be compounded quarterly and recovered by IMD from the 110% Unconditional Advance Bank Guarantee. e) Thirty five percent (35%) of Contract Value (Cumulative to Sixty percent (60%) including the advance amount), will be paid after receipt of goods at each site on prorata basis, after adjustment of Advance Payment f) Fifteen percent (15%) payment of contract value (Cumulative to Seventy five Percent (75%)) 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. g) Five Percent (5%) payment of the contract value (Cumulative to Eighty Percent (80%)) 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



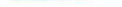








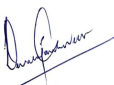
		the satisfactory operation of RADAR and data availability from the respective DWR site, as per the table below: <table><tr><th>Warranty Year</th><th>Percentage of total project cost to be released</th></tr><tr><td>1st</td><td>1%</td></tr><tr><td>2nd</td><td>2%</td></tr><tr><td>3rd</td><td>2%</td></tr><tr><td>Total</td><td>5%</td></tr></table>	Warranty Year	Percentage of total project cost to be released	1 st	1%	2 nd	2%	3 rd	2%	Total	5%								
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Total	5%																			
		h) Remaining Twenty Percent (20%) payment of the contract value (Cumulative to Hundred Percent (100%)) shall be made quarterly during the seven Years COAMC 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 DWR site, as per the table below: <table><tr><th>COAMC Year</th><th>Percentage of total project cost to be released</th></tr><tr><td>1st</td><td>0.4%</td></tr><tr><td>2nd</td><td>1.2%</td></tr><tr><td>3rd</td><td>2.0%</td></tr><tr><td>4th</td><td>2.8%</td></tr><tr><td>5th</td><td>3.6%</td></tr><tr><td>6th</td><td>4.4%</td></tr><tr><td>7th</td><td>5.6%</td></tr><tr><td>Total</td><td>20%</td></tr></table>	COAMC 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%
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1 st	0.4%																			
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3 rd	2.0%																			
4 th	2.8%																			
5 th	3.6%																			
6 th	4.4%																			
7 th	5.6%																			
Total	20%																			
		i) Payment towards Supply, installation, and commissioning of the systems:																		

2 By:  Ananta Soma Sen Ray    Jan Mohammad 

		Payment, as per terms mentioned below, shall be made subject to recoveries , If any, by way of Liquidated damages /penalty clause /TDS or any other charges as per terms & conditions of contract if not specified elsewhere in the document. Following documents shall be submitted by the successful contractor : i. Three copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount. ii. Consignee Receipt Certificate in original issued by the authorized representative of IMD. iii. Copies of delivery Challan identifying contents of each package. iv. Inspection certificate by the nominated Inspection agency, if any. Insurance Certificate . v. Final Acceptance Report from consignee. j) The Payment during Warranty Period: The payment during Warranty Period will be made after satisfactory operation of DWR as per IMD's operational requirement and as well as availability of DWR & AWS, Disdrometer data at respective DWR site on quarterly basis as per TENDER DOCUMENT terms and duly certified by IMD. k) The Payment during COAMC: The payment during COAMC period will be made after satisfactory operation of DWR as per IMD's operational requirement and as well as availability of












		DWR, AWS & Disdrometer data at respective DWR site on quarterly basis as per TENDER DOCUMENT terms and duly certified by IMD.
GCC 10.3.4	Advance Payment	Twenty five percent (25%) of total contract value will be paid in two instalments as advance payment(Twenty Percent (20%) of total contract value will be paid as First instalment after issuance of supply order and second instalment of Five Percent (5%) of total contract value will be paid after successful completion of Detailed Design Review (DDR) as per Section VII, Clause no 16 of the tender document), 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 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 would be deemed as interest bearing advance payment at the interest rate of GPF + 2% to be compounded quarterly and recovered by IMD from the 110% Unconditional Advance Bank Guarantee.
GCC 11, 12: Resolution of Disputes, Code of Integrity, Misdemeanours and Penalties		
GCC 11.2	Excepted Matters	Nil
GCC 11.5	Arbitration Agreement	As per Tender Document
GCC 12.1.4-5)	Risk and Cost Purchase	As per Tender Document

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2 By   Soma Sen Ray     

Section VI: Schedule of Requirements

(Ref ITB-clause 1.4)

Note for Bidders:

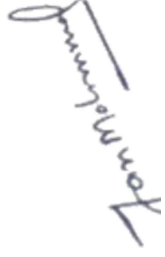
1. Regarding this Schedule, Bidders must fill Form 2: 'Schedule of Requirements - Confirmation/ Deviation' with their Technical bid.
2. The schedule of requirements is inclusive of 3 years warranty followed by 7 years COAMC of all items specified in this Schedule as a single bundled requirement

Tender Title		Procurement of 20 C and 25 X band polarimetric Doppler Weather Radar Systems.								
Tender Reference No		CPU/53/0x25/155x								
Schedule	Item Sr	Local Content (%)	Foreign Content (%)	Description of Goods	Quantity	Country of Origin	Units of Quantity	Delivery Requirements	Destination , State	GSTIN
1	2	3	4	5	6	7	8	9	10	11
Schedule-1		20 numbers of C-Band Dual Polarized SSPA based Doppler Weather Radar								
	1.1	%		Transmitter	20		NUMBER			
	1.2	%		Receiver	20		NUMBER			
	1.3	%		Antenna control unit and Radar control unit	20		NUMBER			
	1.4	%		Radar signal processor	20		NUMBER			
	1.5	%		Radome, Antenna & Antenna Pedestal	20		NUMBER			

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Procuring Organisation

By:  Dipika Soma Sen Roy

 Tanmoy Kumar

 A. S. S. S. S.



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Supra Sonar Sen Roy

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James M. Galt

1025

1.12	%			Additional Tower Height (per 5m) (Optional)* *This cost will not be considered while evaluation of bids	20				Number			
1.13	%			Any other unit/subunits/ item not listed above but required for functioning of DWR shall also be included	20				NUMBER			
1.14	%			Any other Services not listed above but required for functioning of DWR shall also be included	20				Number			
1.15	%			Installation material	20				NUMBER			
1.16	%			Obtaining Frequency Clearance from Wireless planning and Coordination for the operation of DWR at all Site for the operation of the Doppler Weather Radars (DWRs)	20				NUMBER			
1.17	%			Noise survey at sites	20				Number			
1.18	%			Levelling upto 3m and fencing of all sites for an area of approx. 30mx30m	20				NUMBER			

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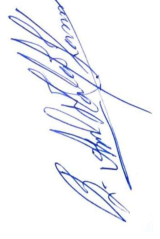
Procuring Organisation



Rajendra Kumar



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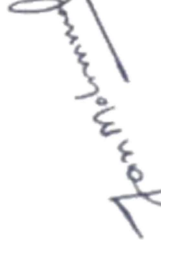
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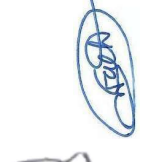
1.19	%		Documentation both hard copy and soft copy - Two copies at each site and two copies at HQ	42	NUMBER			
1.20	%		Communication hardware/ software for data transfer to control center location.	21	NUMBER			
1.21	%		Standard Tools and Test and measuring equipment sets along with all accessories required for complete set-up to be provided at each site for testing and measuring radar parameters/ offline calibration of radar.	20	NUMBER			
1.22	%		Products (Software)	20	NUMBER			
1.23	%		Two UPS each of minimum 15 KVA or more as per the system requirement.	20	NUMBER			
1.24	%		At least 20 KVA or suitable Green Diesel Generator	20	NUMBER			

Section VI: Schedule of Requirements

[157]


 Rajendra Kumar


 Sanjay Kumar




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Supita Sonu Sen Roy

James M. Wolf

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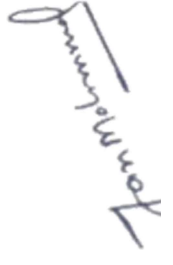
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1.28	%			Services other than operational and COAMC cost to be included	20		NUMBER			
1.29	%			Factory Acceptance Test (FAT)	20		NUMBER			
1.30	%			Onsite training at Twenty sites for a period of five working days and at one site at Delhi of central server location (for a period of three working days) in operations and first level fault identification to be provided for 5 (FIVE) IMD officials at each site. Note: Expenses for trainees such as airfare, lodging and per diem to be borne by IMD	21		NUMBER			
1.31	%			Factory training in operation, maintenance, calibration and fault identification of the radar	1		NUMBER			

Section VI: Schedule of Requirements

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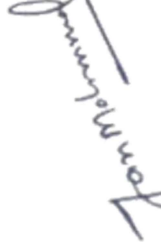




[160]

Procuring Organisation


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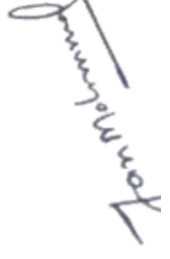

 Rajendra Kumar

2.4	%		Radar signal processor	25		NUMBER			
2.5	%		Radome, Antenna & Antenna Pedestal	25		NUMBER			
2.6	%		Peripherals at 25 sites as per detail at Clause 2, Point 2.52 under Section VII: Technical Specifications and Quality Assurance.	25		NUMBER			
2.7	%		Radar Application and Operating Software	25		NUMBER			
2.8	%		Peripherals for Central Server at Delhi HQ as per detail at Clause 2, Point 2.52 under Section VII: Technical Specifications and Quality Assurance.	1		Number			
2.9	%		Server with Web GIS at 25 sites & 1 at control command center server at Delhi.	26		NUMBER			

Section VI: Schedule of Requirements

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 Rajendra Kumar


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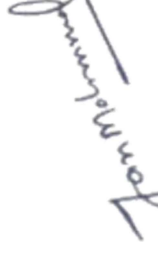

 Sanjay Kumar

2.10	%		Equipment Shelter	25		NUMBER			
2.11	%		20m Tower including installation inclusive of all civil works required	25		NUMBER			
2.12	%		Additional Tower Height (per 5m) (Optional)* *This cost will not be considered while evaluation of bids	25		NUMBER			
2.13	%		Any other unit/subunits/ item not listed above but required for functioning of DWR shall also be included	25		NUMBER			
2.14	%		Any other Services not listed above but required for functioning of DWR shall also be included	25		Number			
2.15	%		Installation material	25		NUMBER			
2.16	%		Obtaining Frequency Clearance from Wireless planning and Coordination for the operation of DWR at all Site for the operation of the Doppler Weather Radars (DWRs)	25		NUMBER			

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Procuring Organisation


 Raju Soma Sen Roy


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 S. V. S. S. S.

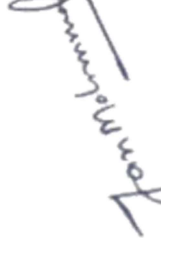

 S. V. S. S. S.

2.17	%		Noise survey at sites	25		Number			
2.18	%		Levelling upto 3m and fencing of all sites for an area of approx. 30mx30m	25		Number			
2.19	%		Documentation both hard copy and soft copy - Two copies at each site and two copies at HQ	52		NUMBER			
2.20	%		Communication hardware/ software for data transfer to control center location.	26		NUMBER			
2.21	%		Standard Tools and Test and measuring equipment sets along with all accessories required for complete set-up to be provided at each site for testing and measuring radar parameters/ offline calibration of radar.	25		NUMBER			
2.22	%		Products (Software)	25		NUMBER			

Section VI: Schedule of Requirements

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By  Digitally Signed Sen Roy

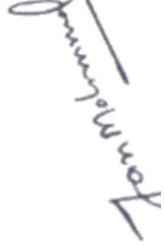
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2.23	%		Two UPS each of minimum 15 KVA or more as per system requirement.	25		NUMBER			
2.24	%		At least 20 KVA or suitable Green Diesel Generator Set with AMF panel for automatic turn ON when mains fails and capable to takes up the load of all the essential components and accessories of the Radar system required for operation). The DG set should be silent with a separate canopy for operations in all weather conditions.	25		NUMBER			
2.25	%		Three Phase Air Cooled Servo Voltage Stabilizer capacity of 30 KVA, automatic, I/P Voltage(phase to phase) 240-480, O/P Voltage	25		NUMBER			

By  Dipika Soma Sen Roy









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By:  Dr. Soma Sen Roy

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By  Soma Sen Roy

A handwritten signature in blue ink, appearing to read "Dr. J. A. H. Jones". The signature is written diagonally across the page.

James M. Wolf

Q2

The specifications described herein refer to C-Band (5450 to 5650 MHz) and X-Band(9300 to 9500 MHz) Dual Polarized SSPA based Doppler Weather Radar including all peripherals, hereafter referred to as "The System". The System shall be capable of detecting and estimating meteorological parameters of severe weather phenomena. The supplier should have full responsibility to execute the project on a TURN-KEY BASIS by taking up the supply, installation, integration and commissioning of all equipment and Comprehensive warranty for three years and comprehensive annual maintenance contract for seven years as per warranty and maintenance clauses. These systems are going to be used for weather forecasting and warning purposes.

(2) Preferred Transportation: Nil.

(3) Required Delivery Schedule: All the 20 C band and 25 X band DWRs along with associated systems including AWS and disdrometers to be installed, accepted and commissioned within 18 months from the date of issue of contract agreement.

(4) Required Terms of Delivery: Free at Destination / Delivered at Place (DAP).

(5) Scope of Supply:

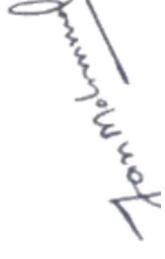
The tender is for procurement of twenty C-band and twenty Five X-Band Polarimetric Doppler Weather Radars to be installed at forty Five specified locations in India. The Supplier shall provide the complete turn-key solution for supply of radar system (all hardware, software and accessories etc.) as per tender requirement, transportation, installation & commissioning and acceptance of complete radar system for smooth operation at all sites. Training at factory site and at the site of installation for hardware and software maintenance support to be provided as per terms and conditions of the tender. For the purpose of calibrating the radar data, bidder shall setup a Radar Calibration station including Automatic Weather Station (AWS) and Disdrometer at around 25-30km away from Radar station, consisting of meteorological sensors and datalogger.

During the warranty period, the complete radar equipment along with its accessories (including AWS and disdrometer) to be maintained, monitoring of weather and high impact weather events, generating necessary radar data and products to be utilized by weather forecasters for issuing weather forecasts, warnings, monitoring and use in NWP data assimilation for nowcasting etc. on round the clock basis to be done by the tenderer. The following shall be broadly considered while implementing the complete project on turnkey basis for supply, installation, testing and commissioning at each of the sites:

Section VI: Schedule of Requirements

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By  Digitally Signed Sanjay Sen Ray






- i. Two online UPSs, in redundant mode and each with minimum capacity of 15 kVA or more as per the system requirement offered by the bidder required for continuous operation of entire DWR system, along with separate battery banks and changeover facility for switching to standby UPS. Each UPS should have at 30 minutes power back-up and should be capable of taking the full load of radar. Catering to required voltage stabilization with a power factor suitable for the system.
- ii. At least 20 KVA or suitable Green Diesel Generator Set with AMF panel for automatic turn ON when mains fails and capable to takes up the load of all the essential components and accessories of the Radar system required for operation). The DG set should be silent with a separate canopy for operations in all weather conditions.
- iii. Three Phase Air Cooled Servo Voltage Stabilizer capacity of 30 KVA, automatic, I/P Voltage (phase to phase) 240-480V, O/P Voltage (phase to phase) 415V with digital display.
- iv. NTP clock based on GPS for system clock time synchronisation of the radar and the connected computers in the radar network.
- v. Communication hardware and accessories for data transfer to central location. Bidder shall provide all necessary communication hardware viz., Firewall (UTM Protection, IPS, Antivirus, Web Filtering and Antispam services), Network switches.
- vi. For the purpose of calibrating the radar data, bidder shall setup a Radar Calibration station (Automatic Weather Station), 25-30km away from Radar station, consisting of meteorological sensors and datalogger along with impact based disdrometer as per specifications mentioned vide Appendix-A and Appendix-B respectively.
- vii. The system will have dual polarization capability by simultaneous transmission and receive in both linear Horizontal and Vertical polarization.
- viii. Installation of radar system will be on steel tower structure fabricated using hot dipped galvanized steel, at site. The standard of the steel and fasteners shall be certified for use in saline environment specified in Indian standard specification manual and specified explicitly. The specification shall meet minimum IS2062:2011 E250 Grade-C Steel for Channels and plates and IS1161:2014 & IS10748:2004 YST 310 grade steel for hollow pipes, IS1367 Grade8.8 for fasteners from reputed manufacturers and their details also shall be submitted.
- ix. The tower structure shall be with height of 20m above the base or platform of the tower.
- x. The system shall have user selectable Single polarization and Dual polarization mode of operation.
- xi. Latest state of art computer system shall be used for the generation of data and its processing.
- xii. The entire operation of the System shall be fully computer controlled and remotely manageable.
- xiii. The tentative locations for installation of the systems are mentioned in Appendix-C.

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Procuring Organisation


Soma Sen Roy

Soma Sen Roy


- xiv. The quoted software should be in use successfully in any operational weather services in the world and actively operational at two sites deployed across the globe to fulfill the functional requirements along with capabilities which have been specified elsewhere in detail.
- xv. At the time of supply of the stores, the latest state of art computer system and latest version of software shall be provided for the generation of data and it's processing, with OEM Licensed Version of Linux / Windows Operating System.
- xvi. All equipment shall be of industry standard so as to enable easy up-gradation and maintenance.
- xvii. Manufacturer shall submit the full details of the hardware, including make, model numbers and the software proposed to be employed for meeting the requirements given herein.
- xviii. Central server at Delhi for processing the radar data from all 45 radars to be provided.
- xix. Facility for radar data analysis and products generation at each of the sites inclusive of automatic dissemination of warnings and alerts are to be provided by the bidder.
- xx. Display of all radar data/products as per IMD requirement such as reflectivity, rainfall rate, horizontal winds at designated height, warnings etc., to be overlaid on GIS map. 3D view provision for all products shall be made in the software.
- xxi. Web access to GIS based radar data display to be provided using web browsers such as Microsoft Internet Explorer, Firefox, and Chrome etc.
- xxii. The bidder shall be responsible for obtaining the Wireless Planning and Coordination (WPC) clearance and first year frequency license payment required for the operation of all the 20C band 25X band the Doppler Weather Radars (DWRs). Renewal charges for the further years shall be done by IMD. Bidder shall obtain the WPC license in the Name of "India Meteorological Department". The bidder shall provide IMD with all necessary WPC certificates or license documentation upon issuance.
- xxiii. Noise survey at all sites shall be undertaken by the bidder.
- xxiv. APIs for all formats NETCDF, GRIB2, HDF5, KML, KMZ, NEXRAD-Level II (for data) and GIF, PNG, JPEG, GEOTIFF (for images) shall be made available to share their data and functions with other departments, business partners, or third parties.
- xxv. GIS based display should be accessible over the network through VPN or Internet.
- xxvi. The bidder has to clearly specify the way of achieving the sensitivity & detection capability (with ref. to OVERALL SYSTEM REQUIREMENTS) with supportive documents of claim and appropriate calculations. The calculations for achieving the required

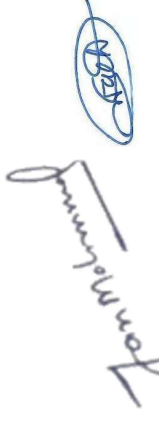
Section VI: Schedule of Requirements

[169]



 Captain. Sonu Sen Roy



 Tamimul Islam

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Supra Soma Sen Ray

Procuring Organisation

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Section VII: Technical Specifications and Quality Assurance

(Ref ITB-clause 1.4)

Note for Bidders: Regarding this Schedule, Bidders shall submit Form 3: 'Technical Specifications And Quality Assurance - Compliance' with their Technical bid.

Technical Specification and Quality Assurance

1. Brief list of Requirements:

- i. Doppler Weather Radar as specified under following para "Overall System requirement".
- ii. The Radar software should be a standard software and in use in at least two (2) sites of any National weather service
- iii. AWS and Disdrometers specifications are mentioned vide Appendix-A and Appendix B respectively.
- iv. Standard Tools and Test and measuring equipment sets along with all accessories required for complete set-up; to be provided at each site for testing and measuring radar parameters/offline calibration of radar.
- v. Data dissemination facility / Networking.
- vi. Training to be provided for operation and maintenance of the radar system at Factory site and installation sites.
- vii. Warranty for three (03) years period.
- viii. COAMC for Seven (07) Years beyond warranty period.

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2. Overall System requirements:

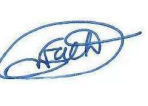
General		
2.1	Range of observation	For C band Radar a. Reflectivity-> 450 Km b. Velocity & spectrum width- 250 Km For X band Radar c. Reflectivity-> 100 Km d. Velocity & spectrum width- 100 Km
2.2	Range resolution	a. Reflectivity- Equal or better than 75 m b. Velocity & spectrum width-Better than 75m
2.3	Max. Unambiguous Range	For C band Radar a) Consistent with PRFs specified below Sl. No 2.11 (250 kms or better) b) 2nd trip echo and multi trip echo filtering provision to be present For X band Radar c) Consistent with PRFs specified below Sl. No 2.11 (100 kms or better) d) 2nd trip echo and multi trip echo filtering provision to be present
2.4	Unambiguous Velocity	Maximum required unambiguous velocity is +/- 30 m/s for a 5cm (C-Band) Radar upto 250 km and +/- 45 m/s for a 3 cm (X-Band) Radar upto 100 km. Both X and C Band Radar: 1. Consistent with PRFs specified below in Sl. No 2.11; 2. Ambiguity Resolution up to four times the Nyquist Velocity
2.5	Detection capability	C band







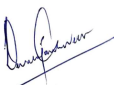


		A. 13 dBZ or better at 230 km range with 2 RPM 0.5 μs pulse width and 600 Hz PRF to be operationally demonstrated. X Band B. 13 dBZ or better at 100 km range with 2 RPM 0.5 μs pulse width and 450 Hz PRF to be operationally demonstrated.
2.6	VSWR	1.3:1 with appropriate interlocking
2.7	Scan Time	10 elevation volume scans from -2deg to 30 deg with all base moments acquired in 8-minutes or better.
	Transmitter	
2.8	Transmitter Type	High power Solid State Power Amplifier (SSPA)
2.9	Frequency Range	5.45 GHz - 5.65 GHz (For C band Radar) 9.30 GHz - 9.5 GHz (For X band Radar)
2.10	Transmitted power	C. Minimum Nominal power at the antenna feed shall be 2 kW or more for each channel and to meet the following detection capability as mentioned in 2.5. (C Band radar) D. Minimum Nominal power at the antenna feed shall be 300Watts or more for each channel and to meet the following detection capability as mentioned in 2.5 (X Band radar)











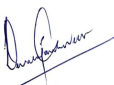

2.11	Pulse repetition frequency	To meet Range and Velocity requirement as per Points No. 2.3 & 2.4 respectively.
2.12	Pulse width	NLFM based pulse width required to match the range of observation and detection with Range side lobe less than 40dB.
2.13	Transmitter Polarization	Horizontal, Vertical, STAR (Simultaneous Transmit & Simultaneous Receive)
2.14	VSWR (Voltage Standing Wave Ratio)	1.3:1 for C Band Radar with appropriate interlocking 1.3:1 for X band Radar with appropriate interlocking
2.15	Duty ratio	Upto 10%
2.16	Safety Feature	All necessary interlocks, status parameters and Analog parameters monitoring, and logging should be incorporated for the safety of the subsystem and the personal. System should have the feature of blanking RF radiation for selective sector.
Antenna, Radome & Tower		
2.17	Antenna	Parabolic Dish Antenna. Horn feeds for simultaneous horizontal and vertical linear polarised radiation onto parabolic solid surface reflector
2.18	Cross Pol. Isolation	> 35 db
2.19	Beam Pattern Coincidence	better than 0.1 degree (Horizontal and Vertical)
2.20	Side lobe	27 dB down from the main lobe to 12° and beyond 12° better than 30 dB.
2.21	Beam Width	1.0° or less
2.22	Azimuth steering	360° with $\pm 0.05^\circ$ accuracy and 0-6 rpm



2.23	Vertical Steering	-2° to +92° or better with $\pm 0.05^\circ$ accuracy
2.24	Polarization	Horizontal, Vertical and STAR mode
2.25	Scanning rates	Up to 6 rpm
2.26	VSWR (Voltage Standing Wave Ratio)	1.3:1 maximum (with radome) desirable with appropriate interlocking
2.27	Scan strategy	Different scan strategies in a scheduler. Automatic change over between different scan strategies shall be possible.
2.28	Pointing accuracy	0.1° (Tower deflection + Servo stability together) (Upto 6 rpm)
2.29	Pointing resolution	0.04° or better
2.30	Azimuth velocity	<u>operation mode:</u> From 3°/sec (0.5 rpm) to 36°/sec (6 rpm) in both Clock-wise (CW) and Counter Clock-wise (CCW) directions. <u>calibration mode:</u> From 0.6°/sec (0.1 rpm) to 36°/sec (6 rpm) in both Clock-wise (CW) and Counter Clock-wise (CCW) directions.
2.31	Elevation velocity	<u>operation mode:</u> from 3°/sec (0.5 rpm) to 18°/sec (3rpm) in both up and down directions <u>calibration mode:</u> from 0.6°/sec (0.1 rpm) to 18°/sec (3rpm) in both up and down directions
2.32	Acceleration in AZ & EL axes	Minimum $10^\circ/\text{sec}^2$ during scan operation, should meet scan time specified in 2.7.
2.33	Power handling	To meet the specification 2.10







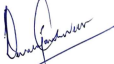


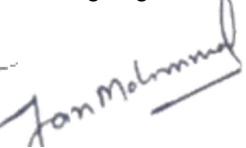


2.34	Operating modes	<u>Standby mode:</u> System Power ON <u>Operate mode:</u> Scan (With specified velocity magnitude and sign) or Pointing mode (specified reference position). Scan of 0.5 to 6 RPM in Azimuth. Volume scan, azimuth sector scan, elevation sector scan (RHI scan), Designate mode and computer designate mode. <u>Calibration Mode:</u> Provision for pointing & follow the Sun for Sun calibration, follow any trajectory precisely in External computer Designate Mode for balloon calibration and bore sight calibration for Antenna pattern measurement. Scan of 0.1 to 6 RPM in Azimuth. <u>Diagnostic Mode:</u> Provision to diagnose important functionality.
2.35	Tower height	a) 20 m nominal height. Tower structure should withstand 250 kmph (Survival/operational requirement). b) The tower design should support overall pointing accuracy specified in 2.28 at wind speed of at least 130 kmph (Operational requirement). c) As per the location the seismic criteria shall be taken into account for the tower stability. d) The structural design should be certified by a competent third-party authorized agency. The copy of the structural design report





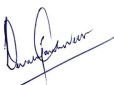



		shall be submitted at the time of Design Review.
2.36	Radome	Foam Sandwich, White Color a) Type: Rigid spherical in shape (curved panels) covering antenna dish and pedestal, with adequate space for maintenance personnel to enter and work with roof hatch. b) Transmission Loss: better than 0.2 dB or better one way.(C band Radar). 0.35 dB or better one way (X Band Radar) c) The radome RF measurements should be certified by a competent third-party authorized agency. The agency should be a government institute / Laboratory with expertise in the related field. The test results have to be produced by the successful bidder during the detailed design review (DDR). d) CCTV to be installed inside radome for remote visual monitoring of water seepage in case of severe weather and in case of abnormal antenna functioning. Number of CCTVs may vary based on the field of view of the CCTV so as to capture the entire area of radome.
2.37	Wind load	a. Average 200 km/hr b. Gusting 250 km/hr.
2.38	Lightening Protection	A. Lightning rod shall be installed on top of the Radome with dual ground wires B. Aviation warning Lamp shall be attached to the lightening arrester. Suitable to the site selected.











2.39	Obstruction / Avionic lights	A. The Aviation warning Lamp shall be installed on top of the Radome B. Twin Light (LED) System with solar powered & auto switch ON/OFF. Roof hatch for maintenance of obstruction lights and entry from bottom; suitable portable ladder shall be provided
	Receiver	
2.40	Type	Multichannel Digital receiver for Dual Polarization (H&V), STAR mode operation or suitable for SSPA based Transmission and reception. Provision to sample Transmitter pulse for matched filtering.
2.41	Digitization	IF digitization using Digital receiver to generate I & Q Signals.
2.42	Noise figure	3 dB or better
2.43	Linear dynamic range	95 dB or better
2.44	Minimum Discernible Signal	-108 dBm or better @2MHz Bandwidth at IF signal output i.e., Signal Processor input).
	Radar Signal Processor	
2.45	Doppler processing	Pulse Pair and FFT (User selectable)
2.46	Clutter suppression	a) Clutter Elimination for ≥ 40 dB b) The system shall have provision for identifying and filtering non-meteorological echoes such as, Sea clutters, bird/insects, chaffs, etc. based on polarimetric measurements.
2.47		a) Reflectivity (Z_H & Z_V) Dynamic Range: -31 to +90 dBZ Resolution: 0.1 dB

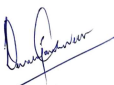


		Accuracy: $\leq 1\text{dB}$ @ $\text{SNR} > 10\text{dB}$; $r = 230\text{Km}$ (for C band Radar) $r = 100\text{km}$ (For X band Radar); $\Delta r < 75\text{m}$ b) Radial velocity (V_R) Max (Nyquist Velocity): $\pm 30\text{m/s}$ Resolution: 0.1 m/s Accuracy: $\leq 1\text{m/s}$ @ $\text{SNR} > 10\text{dB}$; $\sigma_v = 4\text{m/s}$, $r = 230\text{Km}$ (For C band) $r = 100\text{ km}$ (For X band); $\Delta r < 75\text{ m}$ c) Spectrum Width (σ_R) Max: 10m/s Resolution: 0.1 m/s Accuracy: $\leq 2\text{m/s}$ @ $\text{SNR} > 10\text{dB}$; $r = 230\text{Km}$ (For Cband Radar) $r = 100\text{km}$ (For X band Radar); $\Delta r < 75\text{ m}$ d) Differential reflectivity (Z_{DR}) Dynamic range : $-5\text{ to }8\text{ dBZ}$ Resolution : 0.01 dB Accuracy: $\leq 0.2\text{dB}$ @ $\text{SNR} > 10\text{dB}$; $r = 230\text{Km}$ (For C band radar) $r < 100\text{KM}$ (For X Band);

Parameters to be
measured and displayed













		$\Delta r < 75 \text{ m}$ e) Differential phase (Φ_{DP}) Dynamic range : -180 to 180 deg Resolution : 0.1 deg Accuracy: $\leq 2 \text{ deg}$ @ $\text{SNR} > 10 \text{ dB}$; $r = 230 \text{ Km}$ (For C band radar) $r < 100 \text{ Km}$ (For X band radar); $\Delta r < 75 \text{ m}$ f) Correlation Coefficient at zero lag (ρ_{HV}) Dynamic range : 0 to 1 Resolution : 0.005 Accuracy: ≤ 0.05 @ $\text{SNR} > 10 \text{ dB}$; $r = 230 \text{ Km}$ (For C band radar) $r < 100 \text{ km}$ (For X band radar); $\Delta r < 75 \text{ m}$ G) Specific Differential Phase (KDP) : i. Φ_{DP} Filtering / unfolding and smoothing ii. Separate tool / code for externally running KDP processing. iii. Dynamic range, resolution, accuracy are as given in Differential Phase (e). <i>System design parameters should satisfy all accuracy requirements and</i>







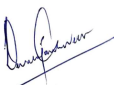




		<i>will be tested with simulated signal at coupler port.</i>
2.48	Calibration	a) Provision shall be made for programmable and auto run for absolute internal calibration to ensure reliability of polarimetric parameters at user defined intervals and display the current values to monitor the system health and accuracy of the Radar. The firm has to provide signal generator at each site for calibration. b) An External calibration through standard external equipment and validation of receiver linearity and dynamic range using standard coherent source and standard measuring equipment. Standard Tools and Test and measuring equipment sets along with all accessories required for complete setup to be provided at each site for testing and measuring radar parameters / offline calibration of radar. c) There should be a provision for automatic update of Radar calibration parameters. d) The calibration setup should be part of the deliverables i. Receiver single point calibration in long and short pulse mode. ii. Transmitter peak power measurement. iii. System noise figure measurement. e) The system shall have the provision for complete automation











		of the calibrations routines to verify system parameters and receiver calibrations. f) Provision for quick calibration check to ensure system sensitivity and dynamic range. g) The Radar shall have provision for attenuation correction.
2.49	Sun & Sphere calibration	a) Automatic software driven and manual mode operation for verifying pointing accuracy 0.1 degree. b) The system shall be made to point towards sun for establishing the gain and pointing accuracy of the antenna; stability and reliability of receiver chain using solar flux (sun) values known from other sources. c) Procedure shall be provided and to be demonstrated during FAT & SAT. d) Script based sun calibration and manual sphere calibration. e) The system shall be made to point towards a metal sphere for establishing the Radar Constant of the system. The necessary sphere along with necessary accessories shall be provided by the bidder. f) Procedure shall be provided and to be demonstrated during FAT & SAT.
2.50	Base Parameters to be measured	
2.50.1	Real time Processing	FPGA based or equivalent for Base Product generation (required FPGA Board and Workstations shall be provided)

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2.50.2	Parallel Signal processing Computing Capability.	Appropriate broadcast speed for broadcasting of I&Q data". Multi node processing: Multiple computers accessing the I&Q data for various processing and displaying purpose. It demands broadcasting switch 10Gbps capability and to support future requirement of IMD.
2.50.3	Data Outputs (All Base Products)	A. 8 bit for transmitting to Remote site / Central Server B. 16 bit for data acquisition and local storage.
2.50.4	Simultaneous Horizontal / Vertical Transmit	
a	Corrected reflectivity H/V	Zh, Zv [dBZ]
B	Uncorrected reflectivity H/V	UZh, UZv [dBZ]
C	Radial Velocity H/V	Vh, Vv [m/s]
D	Spectral width H/V	Wh, Wv [m/s]
E	Cross correlation coefficient	RHOHV
F	Differential phase	PHIDP [°]
G	Differential reflectivity	ZDR [dB]
H	Clutter power H/V	CCORh, CCORv [dB]
I	Signal quality index H/V	SQLh, SQLv
J	Signal Noise Ratio	SNRh, SNRv [dB]











K	Inphase / Quadrature signal H/V	lh, lv, Qh, Qv
L	Power spectrum H/V	PsH, PsV
M	Specific Differential Phase	KDP
2.50.5	Horizontal Transmit	
A	Corrected reflectivity	Zh [dBZ]
B	Uncorrected reflectivity	UZh [dBZ]
C	Radial Velocity	Vh [m/s]
D	Spectral width	Wh [m/s]
E	Depolarization Ratio	LDR [dB]
F	Signal Noise Ratio	SNRh [dB]
G	Signal quality index H	SQLh
H	Clutter power H	CCORh
2.50.6	Vertical Transmit	
A	Corrected reflectivity	Zv [dBZ]
B	Uncorrected reflectivity	UZv [dBZ]
C	Radial Velocity	Vv [m/s]
D	Spectral width	Wv [m/s]
E	Depolarization Ratio	LDR [dB]
F	Signal Noise Ratio	SNRv [dB]
G	Signal quality index V	SQLv
H	Clutter power V	CCORv







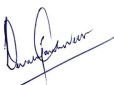




2.51	Radar Controller	a) Workstation-based radar controller with user friendly GUI. Radar operation parameters (including selection of Wave form parameters, scan parameters, Signal Processing parameters, Operation modes selection, Scan strategy selections, etc.) should be selectable through the workstation-based Radar Controller software. Scheduler for long time observation also to be provided. b) Radar controller shall display system Health Check parameters including status, interlocks & important analog parameters of all the subsystems. c) There shall be provision to record and replay from I&Q data. d) Provision for web based remote Radar control, monitoring and operations. e) Super user and user level configurations shall be provided for Radar Controller and the details will be given during implementation stage.
2.52	Display, Archival, Product Generation and Peripherals	a) Two Workstations of latest suitable computer configuration at least 2 Nos. of Intel latest Xeon gold processor, 128 GB RAM, 4TB usable space SATA HDD configured in RAID 1, NVIDIA 8GB Graphics Card and 10G NIC and 32-inch LED Monitor or better. Both Workstations shall be used for display and NRT product generation of the data and shall be Raid configuration of











		storage to avoid any loss of data. b) Two Workstations of latest suitable computer configuration at least 2 Nos. of Intel latest Xeon gold processor, 128 GB RAM, 4TB usable space SATA HDD configured in RAID 1, NVIDIA 8GB Graphics Card and 10G NIC and 32-inch LED Monitor or better. Workstations shall be used for Offline product generation and networking/communication purpose. c) One portable computer (laptop) of intel core i7 13th Generation Processor or equivalent, 32GB RAM, 1TB SSD, 4 or more USB Port, 1 HDMI port, 1Gbps or more Ethernet Port (RJ 45), Wireless mouse and keyboard with single USB dongle and 15' LED Screen with latest version of windows Operating system / equivalent configuration or better, capable of replacing functions of (a) and (b) d) Two desktop computer with intel core i7 13th Generation Processor or equivalent, 32GB RAM, 1TB SSD drive, 6 or more USB Port, 1 HDMI port, 1Gbps or more Ethernet Port (RJ 45), Wireless mouse and keyboard with single USB dongle and 32 Inch LED Monitor with latest version of windows Operating system / equivalent configuration or better for monitoring and analysis of radar and data products.












		e) One 55" (inches) UHD 4k LED display along with computer of latest configuration and processor or better to display various products of radar in multiple windows. f) GPS based NTP Server for Network Clock Time Synchronization. g) NAS storage with RAID-6 dual parity, Dual Controller, Total cache 48GB or higher, 4 x 10GbE Ethernet Ports, support NFS v3, CIFS or higher. NAS storage shall be able to archival five years or more of base product data which includes Reflectivity, Velocity, Spectrum Width and Dual Pol Parameters (output of radar processor) shall with Raid 6 Configuration. The base product data shall be stored automatically on hard disk. h) Provision for recording and playback of I&Q offline data as well as storage of I&Q data in NAS Box. Minimum 1 hour data archival with full bandwidth. i) Provision for web browser based remote Radar control, monitoring and operations. j) Data Archival as in section.3. (Data Archival) of this chapter. k) Archived data format as in section.4. (Data Format) of this chapter. l) All software licenses shall be multiuser and open, without any restriction/hardware lock / soft lock. All OS and radar software











		licenses shall be in the name of IMD. m) All the computer / servers must be ensured to secured by providing firewalls and antivirus software etc.,
	Power Requirements	
2.53	Power	Capable of operating at 400V $\pm 10\%$ V, 50 $\pm 2\%$ Hz in Three phases AC Supply or Capable of operating at 220V $\pm 10\%$ V, 50 $\pm 2\%$ Hz in Single Phase AC Supply
2.54	Online UPS	A. Two online UPSs, in redundant mode and each with minimum capacity of 15 KVA or more as required for continuous operation of entire DWR system, subsystem and associated peripherals for 30 minutes or better. changeover facility for switching to standby UPS. Catering to required voltage stabilization with a power factor suitable for the system. B. Bidder shall submit power budget calculation and the detailed breakup of UPS capacity calculation and battery requirement calculation.
2.55	Green Generator Diesel	At least 20 KVA or suitable Green Diesel Generator Set with AMF panel for automatic turn ON when mains fails and capable to takes up the load of all the essential components and accessories of the Radar system, sub-system and associated peripherals required for operation). The DG set should be silent with a separate canopy for operations in all weather conditions.
2.56	Enclosure	A well-furnished single storied, pre-fabricated cabin-size of at least 1000 Sq feet to meet all



		operational requirements which includes operational room, Radar Officer room, UPS, stores, Kitchenette, Rest room, Washroom, along with atleast 3 nos. Of 1.5 Ton 5 star rated ACs, water dispenser, RO water filter, electric kettle, microwave oven, induction top with induction utensils, furniture and separate outside canopy housing for D.G. set, Communication devices like an intercom system or emergency radio, Cable management and server racks for any local network needs, Surveillance system, Fire Alarm system, Smoke and heat sensors in key area, First Aid kit, Cleaning Supplies, File Cabinets, Bed, 3 Seater Sofa for staffs working during night shifts, 1000L Water Tank and bathroom showers, taps, Water Heater and Room Heater (Induction type) to make it convenient for operational staff to work round the clock.
		Features
2.57	Feature	1. System should be operated remote monitoring and control including equipment power supply 2. The base data (output of radar processor) shall be stored automatically on hard disk and NAS in compressed form. At least three month past data shall be available on the local computer disk at a time. 3. Radome should be Tuned sandwiched or equivalent, suitable for operating coastal / snow regions / high altitudes 4. The entire radar system shall be mounted on a steel tower which will be delivered to the











		consignee ready for operation at any selected site. Appropriate cemented concrete base, hydraulic levelling arrangement (if required), networking hardware, Green diesel generator (that takes up the load of all the essential components and accessories of the Radar automatically for long time when utility power fails), UPS with batteries, fuel storage tank for generator, etc., shall also be provided. Green Diesel generator shall have automated switching on and off in the event of normal electricity failure. All system should have capability to shut down in the event of long time power failure, shortage of diesel to operate the DG etc. 5. Air-conditioned equipment shelters with adequate space for housing all radar electronic equipment's, the workstation, UPS, stationery, manuals, tools etc. 6. Lightning protection is to be in place ensuring safety of the system and mounted elements by the way of grounding cable through ground bar or other suitable mechanism. 7. The electrical earthings (maintenance free), requirement of various peripherals inclusive of radar, has to be taken care and appropriate early streamer emission lightning protection system with lightning flash counter along with deep chemical gel and copper plate based earth pits shall be provided by the bidder/manufacturer.











		8. The project is to be executed on a turnkey basis and all items shall be supplied and complete the installation and commissioning within the stipulated time as mentioned in the original document. 9. The supplied DG Set, UPS, three phase voltage stabilizer etc., should have a service facility and spares backup in India. 10. The antenna should be mounted on tower of height 20 meter from the ground/shelter, for better exposure. 11. Tower shall be provided with a lift to access the top floor (without hindering antenna elevation axis operation) for service/installation/inspection engineers (4-person) and not for material movement. 12. All protection for the movement of service personals shall be provided in the equipment bays/floors. 13. The antenna mount should be equipped with suitable levelling system to ensure horizontal alignment of azimuth and elevation axis. Suitable readers shall be included with an accuracy of 0.1 degree or better. 14. Housing of the electronic subsystem may be considered at one stage below the antenna housing floor to avoid losses. However, this is purely at the discretion of the bidder taking care over all link budget and performance of the system which is essence of the contract. Suitable air conditioning system











		also should be provided as and where required to operate all subsystems as per the specification. 15.IMD will take possession of the radar after commissioning. Cost involved of the system (Radar, inclusive of all the deliverable as per this document) and operator till then shall be borne by the supplier including all consumables and supply of green diesel for the DG set. 16.Transportation from the factory to the site will be the responsibility of the bidder/manufacturer. 17.The entire site preparedness and custom tuning/positioning is to be fully borne by the bidder/manufacturer and the work is to be undertaken by the bidder/manufacturer in the presence of duly authorized IMD engineers. 18.The entire work of installation and commissioning of the radar has to be carried out by the bidder/manufacturer, though IMD may station few of its officials at the site for guidance. 19.Communication hardware for data transfer to central location. Contractor shall provide all necessary Communication hardware i.e. Hardware Firewall (UTM Protection), IPS, AV, Web Filtering and Antispam Services), EtherNet Switch, FTP Server (one of the workstations may be configured as ftp server also) to Transfer the data to external agencies and to a central location identified by







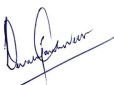




		IMD 20. The network link between the radar system and central server (At Delhi) will be provided by IMD; firm shall suggest suitable bandwidth for real time system control and monitoring; a near real-time receipt of data for generating composites of all the radars as per the scope of Radar OEM)
2.58	Software	a) The system should have proven software for data processing and display. b) The software should have Three dimensional display for Radar data. Reflectivity, Velocity, Spectrum width, and Rain rate in 3 dimensions. Geographical terrain shall be in 3 dimension. c) The offered software should be a standard software and in use in atleast two (2) sites of any National Weather Service anywhere in the globe.
2.59	Fencing and Site Levelling	A. The bidder shall be responsible for carrying out fencing and site levelling at each RADAR installation site. This includes clearing the area, levelling the ground, uprooting of trees / sherbs, and installing a durable fence around the designated site to secure the RADAR equipment and ensure safe access. B. Successful bidder shall make necessary arrangements, including the bearing all the costs / charges for Electrical Power required for DWR operations and need to take care of electric power at the site till the successful commissioning of the DWR. C. Successful bidder shall carry out











		Soil testing at the sites. D. Fencing Specifications • The fence (Approx. 30m x 30m) shall be made of high-quality, corrosion-resistant materials suitable for outdoor conditions. • The height of the fence shall be a minimum of 2.5 meters, with an additional provision for barbed wire at the top, ensuring a secure boundary. • Gates with secure locking mechanisms shall be installed at the entrance to allow controlled access to the site. E. Site Levelling Standards • The site shall be levelled to a standard (upto 3m) suitable for the safe and stable installation of RADAR equipment. • Any necessary soil filling or compaction work required for proper levelling shall be undertaken by the bidder, ensuring drainage and foundation stability. • The bidder shall ensure that levelling work adheres to all relevant safety and engineering standards. F. Timeline and Inspection • The fencing and site levelling work shall be completed before the delivery and installation of RADAR equipment. • IMD reserves the right to inspect and approve the











		fencing and levelling work prior to RADAR installation. Any deficiencies identified during inspection shall be rectified by the bidder at no additional cost to IMD. G. Maintenance of Fencing The bidder shall ensure that fencing remains in good condition. Any necessary repairs or adjustments required during warrenty / COAMC period shall be the responsibility of the bidder.
2.60	Operating Temperature	-40 to +53 Degree Celcius

3. ARCHIVAL OF RADAR DATA:

- 3.1 The base data which includes Reflectivity, Velocity, Spectrum Width and Dual Pol. Parameters (output of radar processor) shall be stored automatically on hard disk. Network Attached Storage on RAID 6 with adequate capacity based on SATA disk, to be provided for archival of Base Parameters data.
- 3.2 2 in 1 A4 Sized Laser Printer (600dpi or better) cum Scanner (1200 dpi or better) with auto paper turn facility for both printer and scanner 1 number and Ink-tank colour printer (600dpi or better) 1 number at each radar stations and one set each in central server at New Delhi.

Total Printer deliverables

3.2.1 2 in 1 A4 sized Laser printer (600 dpi or better) cum scanner (1200 dpi or better): 46Nos. (45+1)

3.2.2 Color Ink tank printer: 46Nos. (45+1))

- 3.3 External Blue ray DVD writer with 12 disks of dual layer Blue ray DVD R/W and 50 disks of Blue Ray DVD/R at each site to be provided.

- 3.4 Provision to record, store and offline playback for analysis of I&Q data.
- 3.5 The Annual Maintenance Contract with service providers should include a clause that Hard Disk should be retained by the organization (IMD), even if it is faulty. This excludes any hard disks / flash disks or storage media that contains any data of IMD. While disposing the Hard Disk it should be destroyed so that data cannot be retrieved.

4. DATA FORMATS:

4.1 Digital Data

- 4.1.1 System should be capable of archiving of raw data (I & Q) and generating Polarimetric Doppler Weather Radar Base data and products in NETCDF, GRIB2, HDF5, KML, KMZ formats and Nexrad-level II formats
- 4.1.2 Firm shall make full details of the formats considering all radar operational and health parameters in consultation with IMD
- 4.1.3 Data should be converted from RAW, RAINFALL mm/hr, RAINFALL ACCUMULATED in mm, Horizontal winds at user selected levels in height, to Cartesian coordinates. Such data should also be available in HDF5, NetCDF.
- 4.1.4 Stand-alone NETCDF, HDF5, GRIB2, NexRAD-Level II, encoding and decoding software on Licensed Linux/MS-WINDOWS platform should be provided. The software should be able to convert the radar data to formats as per user requirements and IMD specifications
- 4.1.5 NetCDF format data shall be provided in NCAR CFRadial, and IMD-NetCDF format. Details of IMD-NetCDF format, HDF5 format file as required by IMD shall be provided to successful bidder for developing software applications.
- 4.1.6 Existing central server system at IMD HQ, New Delhi is based on Vaisala (SIGMET) IRIS software for centrally generating various products including mosaic and various data formats from RAW data & data products. The successful bidder should provide necessary provision to ingest their radar data in a compatible format for use with already available central server at New Delhi.
- 4.1.7 Demonstration of Real-time Radar Rainfall Mosaic: The bidder shall demonstrate the real-time radar rainfall mosaic with different frequency bands of Doppler Weather Radar (DWR). Other DWR data will be provided by IMD in

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an open source format NetCDF / HDF5 to successful bidder. The compatibility and integration will be under the scope of work of the bidder.

- 4.1.8 Demonstration of Radar Products: The bidder shall demonstrate all radar products as outlined in the tender document during the technical evaluation phase. Access to the DWR products shall be provided to the Technical Evaluation Committee for review.
- 4.1.9 Implementation of Real-time Rainfall Mosaic: The real-time rainfall mosaic shall be implemented by integrating data from all DWRs supplied under this RFP, to produce comprehensive Mosaic. This integration shall provide a comprehensive mosaic, regardless of the frequency band of each DWR. Other DWR data will be provided by IMD in an open source format NetCDF / HDF5 to successful bidder. The compatibility and integration will be under the scope of work of the bidder.
- 4.1.10 Data format if proprietary should be disclosed with decoding software codes.
- 4.1.11 The successful bidder shall provide data format converter from Raw Data format as well as products to ASCII.

4.2 Image data

- 4.2.1 The system should be capable of automatic generation of images in (JPEG, GIF, TIFF, GEOTIFF, PNG) format files for publishing on web site. Images should have high resolution for full HD displays and also for web pages. Following file naming conventions are to be implemented for automatic generation of images after completion of each volume scan. Provision to display data capture time in both UTC and IST in the images and display simultaneously in RADAR data product.
- 4.2.1.1 caz_stn.gif Max Z 250 km range (for c band Radars) and 100 km range (for X band Radar)
- 4.2.1.2 ppz_stn.gif PPI Z 450 km (for c band Radars) and 100 km range (for X band Radar)
- 4.2.1.3 ppi_stn.gif PPI Z 150 km (for c band Radars) and 100 km range (for X band Radar)
- 4.2.1.4 ppv_stn.gif PPI V 250 km (for c band Radars) and 100 km range (for X band Radar)
- 4.2.1.5 vp2_stn.gif VVP 30 km Range / up to 10 km height

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- 4.2.1.6 sri_stn.gif SRI 150 km (for C band Radars) and 100 km range (for X band Radar)
- 4.2.1.7 pac_stn.gif PAC 150 km (for C band Radars) and 100 km range (for X band Radar) accumulated rain for 24hrs

5. SOFTWARE

5.1 FEATURES:

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

- 5.1.1 Operating the radar.
- 5.1.2 Setup of operational scan parameters.
- 5.1.3 Configuration of weather products.
- 5.1.4 Generation of alerts and warning,
- 5.1.5 Configuration of Network Communication Hardware used in the system.
- 5.1.6 Setup of display overlaid on map of India with political boundaries of international borders, states, and district boundaries. Provision shall be available to include the Taluka, Village / Panchayat Boundary.
- 5.1.7 Automatic calibration for antenna, receiver, dynamic range, etc.
- 5.1.8 Monitoring the health of the radar using BITE.
- 5.1.9 The process of setup/change of various scan parameters should be easily accessible to operators using GUI.
- 5.1.10 Base Product generation.
- 5.1.11 Base Product display with zooming options, latitude, longitude display, selectable parameter displays and color coded
- 5.1.12 Generation of audio-visual warnings based on user defined thresholds for severe weather detection.
- 5.1.13 Automatic transmission of warnings (visual and text) to users via communication channels.
- 5.1.14 Facility to reprocess and display products from past data.
- 5.1.15 Simultaneous display of data having more than one parameter.
- 5.1.16 Displaying of data of base data listed shall be possible and will be selected as and when required by the end user for the operational and analysis purpose in single terminal.
- 5.1.17 Requisite software protection for denying unauthorized access to be provided.

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A 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.

5.2.1 Base Products

5.2.1.2 The system shall generate base data comprising for **z**, **v**, **σ** and Polarimetric products after applying different corrections to raw data (like attenuation effect due to precipitation, earth curvature, range normalization, beam blockage, interference due to external sources, non-meteorological echoes, second-trip recovery, ground reflection, bright band correction, etc.)

5.2.1.4 Provision also should be available to generate all products in offline mode using the archived raw data.

5.3.1 Maximum Display

5.3.2 PPI (Plan Position Indicator)

2 By   Soma Sen Ray     

The system should be capable of generating the PPI (**Parameters to be measured and displayed as per Clause no 2.47**) for all types of raw data at user selectable elevation angles from lowest to highest elevation in the scheduled scanning procedure.

5.3.3 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 form (**Parameters to be measured and displayed as per Clause no 2.47**) from 1 km to 18 km height.

5.3.4 PCAPPI (PSEUDO CAPPI)

The system shall incorporate data form the highest elevation scan near the radar and from lowest elevation scan for areas 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 (**Parameters to be measured and displayed as per Clause no 2.47**) from 1 km to 18 km height.

5.3.5 VCUT (Vertical Cut)

The system shall interpolate all the base products (**Parameters to be measured and displayed as per Clause no 2.47**) in any vertical plane passing through user defined two points and display the same for the user selectable parameters.

5.3.6 EBASE (ECHO BASE)

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

5.3.7 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.

5.3.8 HAIL WARNING

Based on reliable hail warning algorithm, the system shall generate a hail warning symbol at the appropriate place in the PPI display in one or more of the operator chosen fields.

5.3.9 HYDROMETEOR CLASSIFICATION

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The system shall be capable of generating a product for 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 required. Hail detection based on this classification shall be one of the products in this class.

5.4 Derived Meteorological Products:

5.4.1 Velocity Products

The system shall generate and display following velocity products:

- 5.4.1.1 Radial velocity versus the azimuth for a fixed elevation and a fixed slant range (VAD).
- 5.4.1.2 Radial velocity at a fixed user defined range on height and azimuth angles (Radial velocity display for fixed range, azimuth angles for various height and azimuth).
- 5.4.1.3 Horizontal wind velocity and wind direction using barbs in a vertical column above the radar site for different heights including divergence & convergence product. (VVP_1)
- 5.4.1.4 The vertical Profile of the horizontal winds derived from the Radial Winds within 30 km range of radar and 10 km height using standard algorithm in the form of Wind Barbs showing wind speed and direction in the time series manner for a user selectable time duration (VVP_2)
- 5.4.1.5 Horizontal wind vectors (UWT) using barbs at user defined layer height with or without underlay of reflectivity or velocity in PPI / CAPPI format.

5.4.2 Hydrological Products:

The system shall generate and display following hydrological products:

- 5.4.2.1 Rainfall intensity using polarimetric moments as well as Z-R in a user selectable surface layer and constants with constant height above ground. Provision of specifying freezing layer height dynamically. The freezing layer height shall be provided through text file by IMD.

- 5.4.2.2 Instantaneous estimation of water content (VIL) residing in a user defined atmosphere layer in the atmosphere to be displayed in PPI type of display.
- 5.4.2.3 Precipitation accumulation (PAC) using polarimetric and Z-R in a user definable time period.
- 5.4.2.4 Rainfall amount in user defined catchment basins for user defined time span.
- 5.4.2.5 Provision for putting river basin map overlay as per user requirement.
- 5.4.2.6 Rainfall intensity, rainfall rate and accumulation products shall have an option to be adjusted by Rain Gauge, disdrometer data. Rain gauge and disdrometer data shall be displayed along with the radar data. Rain gauge and Disdrometer data will be made available by IMD in text format.
- 5.4.2.7 Online Adjustment of rainfall rate by appropriate rain gauge or disdrometer data shall be possible.
- 5.4.2.8 The system shall convert data of reflectivity and polarimetric measurement to horizontal maps of rainfall intensity.
- 5.4.2.9 The system shall be capable of generating precise rain rate information using combination of polarimetric parameters as well as Z(h)
- 5.4.2.10 The system shall use algorithm based on polarimetric parameters for correcting rain rate estimation errors arising out of hail, non-meteorological echoes and attenuation.

5.4.3 Aviation Products

- 5.4.3.1 The system shall evaluate derivatives of wind velocity in radial, azimuth, elevation, North South, East West directions and derive horizontal, vertical and three-dimensional shears.
- 5.4.3.2 The system shall also be able to generate warning product on microburst, meso-cyclones and wind shears beyond adaptable threshold levels.
- 5.4.3.3 The system shall evaluate maximum turbulence within user defined atmospheric layer and display in top view.

5.4.4 Warning and Forecasting Products:-

- 5.4.4.1 System shall generate and display warning symbols for thunderstorm, hailstorm, dust storm, meso-cyclone, convergence, divergence and gust fronts.

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- 5.4.4.2 System shall be capable of evaluating speed and direction of movement of weather systems.
- 5.4.4.3 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.
- 5.4.4.4 System shall be able to detect tornado and gust fronts associated with storms and issue visual and text warning message.

5.5 Alphanumeric Products

The system shall also be able to provide all the product data (i.e., base, primary and derived) in ASCII tabular form.

6.3 Built In Test Equipment (BITE).

6.3.1 A modern 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.

6.3.2 BITE processor shall measure and process a number of real time analog and digital parameters in the radar system and generate and display the error message whenever their value falls outside the specified permissible range.

6.3.3 BITE processor shall continuously monitor input and output signals of every module/PCB for any deviation from the standard values.

6.3.4 Audio alarm indication for occurrences of faults is to be provided.

6.3.5 Centralized monitoring of status of radars networked.

7. Provision for Networking & Communication system for data transfer to central location:

7.1 Provision shall be made with suitable communication hardware & software for real time transfer of digital radar data and images generated in real time through networking to control and monitoring centres and central server at IMD HQ, New Delhi.

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- 7.2 All networking components required at radar site, calibration site and as well as command and control centre shall be provided by the bidder.
- 7.3 Necessary interface shall be provided for sending radar data through GSM, VPN and internet.
- 7.4 These control centres should be able to monitor and control the functions of the radar. Data from respective radars under each centre will be utilized for real time display facility for monitoring the health parameters as well as the weather data acquired by radars in operational mode.
- 7.5 The communication link will be provided by IMD. The bidder shall specify the bandwidth requirement.
- 7.6 Deliverables for control and command centres are to be provided as per Annexure-III.
- 7.7 The radar data is to be converted in a compatible format for use with already available central server of the existing Doppler weather radar network of IMD based on IRIS (SIGMET) software of M/S Vaisala. IRIS is open source software. Bidder can get details from internet.
- 7.8 Data of all radars to be overlayed on GIS map with option to include underlay maps from Google, Open street map or ESRI, Arc GIS, etc. Locally installed and accessible GIS server using Open street map to be provided. The Products which are to be overlayed are:
- 7.8.1 Reflectivity
- 7.8.2 Rainfall
- 7.8.3 Warnings based on Rainfall, Velocity, Hydrometeor Classification.
- 7.8.4 Perpetual License, if any for GIS software shall be provided by bidder without any cost.
- 7.8.5 Boundary of states will be provided by IMD as shape files to successful bidder.

8. INSTALLATION:

- 8.1 All installation related work including civil work shall be carried out by the bidder. However, IMD personnel shall be associated with the installation process. All installation materials required shall be supplied by the bidder.
- 8.2 The complete radar system ready for operation to be delivered to the consignee at all sites. Appropriate cemented concrete base as per seismic zone requirements, hydraulic levelling arrangement (if required), networking

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- hardware, UPS with batteries, and three phase voltage stabilizer etc., shall also be provided
- 8.3 The bidder shall take into consideration that the system is required to be installed on site on a Galvanized Steel Tower mounted on appropriate cement reinforced concrete base 60cm thick with nominal height of 20 m upon which radar antenna and radome shall be installed. Towers should be able to take the dynamic load of the radar system and its accessories while in operation, (with due consideration for the gusty wind load) and shall be erected by the bidder.
 - 8.4 Walk/inspection space of about a meter width all around the radome base with a safety railing of 1.5m height is recommended for servicing of Radome. The railings should not degrade the signals of the radar during regular operations.
 - 8.5 The entire responsibility of civil construction/site preparedness including soil survey for installation of the radar and its peripherals shall be the responsibility of the bidder.
 - 8.6 Levelling upto 3 m and fencing for the site of area approximately 30mx30m.
 - 8.7 Successful Bidder shall make necessary arrangements, including bearing all the costs / charges for Electrical Power required for DWR operations need to take care of electric power at the site till the successful commissioning of the DWR.
 - 8.8 Pre-requisite for both civil & electrical requirements for installation of radar shall be clearly mentioned separately, inclusive of suitable diagrams of antenna & radome installations, along with the technical bid.
 - 8.9 The bidder shall be responsible for obtaining the Wireless Planning and Coordination (WPC) clearance and first year WPC license payment required for the operation of the 20 C band and 25 X band Doppler Weather Radars (DWRs). Renewal charges for the further years shall be done by IMD. Bidder shall obtain the WPC license in the Name of "India Meteorological Department". The bidder shall provide IMD with all necessary WPC certificates or license documentation upon issuance
 - 8.10 Noise survey at all sites shall be undertaken by the bidder.

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- 8.11 The required number of electrical earthing based on latest technology i.e., Chemical Gel earthing or better technique is required for various peripherals inclusive of radar, has to be provided by the bidder.
- 8.12 Suitable Lightning Arresters installed on the top of RADOME for protecting the radar with reliable lightning protection system with deep chemical gel and copper plate-based earth pit shall be carried out by the bidder. The earth resistance shall be tested.
- 8.13 Surge Protection Device is to be provided at all the sites.
- 8.14 Aviation warning indicator lamps shall be supplied and installed by the bidder on the top of the antenna/radome at appropriate height.
- 8.15 All other requirements such as power and communication facility etc. will be arranged by successful bidder for enabling tower construction, installation till commissioning of radars at each respective site. However, after installation /commissioning of the radar systems at each respective site IMD will arrange the power and communication facility etc. for operational requirement.
- 8.16 IMD may not facilitate the accommodation and transportation arrangements for the personnel of the installation team of the bidder.
- 8.17 Bidder shall conduct the noise Frequency survey at all the sites and also obtain necessary Frequency clearance from WPC. The necessary statutory documents will be provided by IMD

9. LOCATION:

The list of tentative sites for installation of Radars is attached at Appendix-C.

10. TESTING AND ACCEPTANCE:

- 10.1 The 3 (Three) IMD official shall conduct the Factory Acceptance Test at Factory premises. The bidder shall submit detailed testing plans for Factory Acceptance Testing (FAT) for fully integrated radar system prior to shipment and Site Acceptance Test (SAT) after installation at site for system acceptance. The test plan shall require concurrence of IMD.
- 10.2 During the FAT and SAT, cost of travel, per diem charges and charges for boarding / lodging for IMD personnel shall be borne by IMD, Government of India.

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- 10.3 The objective of the tests shall be the verification of performance of the system as per the specifications and functional requirements as per TENDER DOCUMENT.
- 10.4 As per the mutually agreed test procedures, FAT shall be carried out at the manufacturer/OEM's premises prior to shipment. The equipment shall be shipped only after satisfactory conclusion of the pre-shipment acceptance testing (FAT).
- 10.5 As per the mutually agreed test procedures, acceptance test should be carried out at each radar site after installation. The bidder shall arrange for necessary test equipment, Man Power etc.
- 10.6 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.
- 10.7 Within 30 days of installation of each system, the bidder should site acceptance test (SAT) of the radar and its peripherals as a whole system.

11. SYSTEM COMMISSIONING:

After the satisfactory completion of the site acceptance tests, the bidder shall demonstrate the reliabilities and capability of the system to be operated continuously and satisfactorily for a period of 15 days endurance test of the complete radar system, after which it will be said to be "**Commissioned**".

12. WARRANTY:

- 12.1 Warranty shall remain valid for three years after the system has been commissioned and accepted by the IMD as per terms of the contract agreement. The warranty shall also include all third party bought out items / subsystems including Tower, AWS system, Disdrometer system, Computers, Generator Set, UPS and 3 Phase Voltage stabilizer, etc. OEM certification of warranty for the third party items is to be provided. They shall also be included in the overall performance of the system. The SLA requirement for operational services of Doppler Weather Radar (DWR) under warranty is mentioned at clause 19.
- 12.2 This warranty clause is applicable to all individual radar including collocated AWS/ Disdrometer sites.

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- 12.3 Upon receipt of notice about faults, the bidder shall repair or replace the defective goods or parts thereof, free of cost, at the site.
- 12.4 The bidder shall take over the replaced parts/ goods after providing their replacements and no claim, whatsoever shall lie on IMD for such replaced parts/ goods thereafter. This excludes any hard disks / flash disks or storage media that contains any data of IMD.
- 12.5 The bidder shall supply the software updates, if any, during the warranty and COAMC period, free of cost.
- 12.6 Bidder shall ensure 95% of 365 days annual-uptime excluding the 15 days of annual preventive maintenance period.
- 12.7 A penalty of 0.5% (half per cent) of the contract value for the delay in response time beyond specified time as detailed above shall be recoverable from the Performance/ Warrantee Guarantee or as per GCC-clause 10.4 below. The maximum penalty for warranty failure will be 5% (Five percent) of the contract value during the whole warranty period. If there is further such delay after reaching this limit, Procuring Entity shall be entitled to encashment of whole of Performance/ Warrantee Guarantee Bonds. In such an event, action similar to GCC-clause 9.10 for inordinate delays would also be taken.
- 12.8 Maximum two weeks shutdown for Annual maintenance shall not come under the clause. Delay due to external factors and natural calamity beyond human control will be exempted.
- 12.9 The bidder should submit a detailed preventive maintenance schedule of warranty period during DDR. During warranty period, the bidder is required to visit consignee's site at least once in Three(03) 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 at Radar Division, India

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Meteorological Department, New Delhi along with satisfactory certification by the Radar Division (IMD).

- 12.10 During the warranty and COAMC period, the successful bidder shall be responsible for Obtaining Frequency Clearance from Wireless planning and Coordination for the operation of DWR at all Site for the operation of the Doppler Weather Radars (DWRs) on behalf of IMD, at no additional cost to IMD. The bidder shall provide IMD with all necessary WPC certificates or license documentation upon issuance.
- 12.11 IMD will support this process by providing any required statutory documentation needed by the bidder to facilitate the WPC clearance. The bidder shall ensure compliance with all WPC guidelines and timely submission of applications to avoid any disruption in operations due to licensing delays.

13. TRAINING:

- 13.1 The bidder shall provide factory training in operation, maintenance, calibration and fault identification of the radar system along with modification & up-gradation in application software to 2 (Two) IMD officials at the premises of OEM for a period of 2 weeks. The number of days shall be 2 x 5 working days. The training hours shall be 8 hours each day.
- 13.2 During factory training, cost of travel, per diem charges and charges for boarding / lodging for IMD personnel will be borne by IMD, Government of India.
- 13.3 The training shall also include lectures on the system design, computer hardware/software, operation and such other aspects which are considered essential for optimum utilization of the radar system. The training material will be documented and handed over to the trainees.
- 13.4 Onsite training in operations and first level fault identification to be provided for a period of five working days to 5 (Five) IMD officials at each site.

14. DOCUMENTATION:

- 14.1 The bidder shall furnish two copies of the documentation (detailed in point b-m) in well-bound sets/volumes of good print quality for each radar site and two copies of the same to Radar Division, New Delhi.
- 14.2 Soft copy of all the manuals should also be provided along with hard copy.
- 14.3 All standard manuals, technical data sheets and other pertinent information of functional, electrical, and

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- mechanical modules used in the System shall be included in the manuals.
- 14.4 Interface connectivity document has to be provided for hardware as well as software interfaces.
- 14.5 Detailed documentation of all the proprietary data formats, bit-by-bit information on the header and data patterns should be provided.
- 14.6 Free updates made to firmware, processing software and clarifications should also be supplied with relevant documentation during the period of warranty and COAMC thereof.
- 14.7 The system functional block diagram shall be laid out so that a user can readily understand and identify the major functions of the system.
- 14.8 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.
- 14.9 The instructions shall provide assistance to an operator to use the System for optimum performance.
- 14.10 Sufficient illustrations shall be included to identify and locate all operating controls and indicating devices.
- 14.11 Layout and Schematic Assembly Drawings: Schematic Diagrams of all assemblies, modules shall be provided.
- 14.12 Parts List: Detailed parts list with part numbers shall be provided.
- 14.13 Algorithm of Products: The algorithms used in product generation shall be supplied.
- 14.14 It shall be the responsibility of the bidder to provide detailed parts list of modules sourced. List of items imported and incorporated in the system should also be provided separately. Only such items may be used in the system whose technical details are made available by the manufacturer.

15. PROJECT SCHEDULE:

15.1 Delivery

- 15.1.1 All the 20 C band and 25 X band DWRs along with associated systems including AWS and disdrometers to be installed, accepted and commissioned within 18 months from the date of issue of contract agreement.
- 15.1.2 Detailed Design Review (DDR) will be held after one month from the date of issue of supply order where-in the design of hardware & software the design along with performance parameters of the sub units will be discussed in detail to

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ensure that the system achieves the performance parameters to be delivered as per TENDER DOCUMENT.

- 15.1.3 Any damage of Radar during transportation to the site and till the Site Acceptance test is over is the liability of the supplier to rectify

16. Detailed Design Review

Detailed Design Review (DDR) will be conducted within one month from the date of award of contract where in the design along with performance parameters of the sub units will be discussed in details to ensure that the system achieves the performance parameters to be delivered as per TENDER DOCUMENT.

17. COMPLIANCE STATEMENT:

- 17.1 The bidder shall submit detail para-wise compliance statement in tabulated format mentioning full details with reference Para, Clause and page no. Of the bid for each parameter along with reasons for compliance/ non-compliance, if any.
- 17.2 The bidder 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.
- 17.3 Silence on any para or simply making a statement 'complied' without proper justification or reference will be considered as non-compliance.
- 17.4 All the claims with respect to any specification shall be supported by document along with bid document otherwise same may be treated as non-compliance.
- 17.5 Compliance matrix should be filled in at all points of TENDER DOCUMENT individually.
- 17.6 All pages should be signed and stamped.

18. COMPREHENSIVE OPERATION AND ANNUAL MAINTENANCE CONTRACT (COAMC) :

- 18.1 COAMC will commence subsequent to successful completion of warranty period of three years from the date of commissioning of individual radar and associated systems including AWS and disdrometers.
- 18.2 The COAMC includes Control Center and Radar Site Material & Services inclusive of all Disdrometer and AWS site, Computer peripherals, Printers, Radar modules, spares, components, cables, connectors etc. and radar related materials like UPS, DG, Radome, Tower, etc. and the removed/replaced defective material becomes the property

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- of "The Bidder" excluding any hard disks/ storage media that contains IMD's data.
- 18.3 The COAMC clause will be applicable for control center and all the radar sites.
- 18.4 The COAMC 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 COAMC plan including preventive maintenance schedule during DDR.
- 18.5 The "Bidder" shall supply the details of its call centres meant for booking the complaints along with the contact numbers like mobile nos., phone nos., mail address and names etc. of its service engineers.
- 18.6 The radar shall be decommissioned for a period of two weeks only for annual preventive maintenance and upkeep in a cyclic mode.
- 18.7 The "Bidder'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. The SLA requirement for operational services of Doppler Weather Radar(DWR) and associated sub system including AWS/Disdrometer under COAMC is mentioned at clause 19.
- 18.8 The overall system uptime—including the continuous availability of Radar, AWS, and Disdrometer data—at each DWR site of the IMD shall be maintained at a minimum of 95% uptime, equivalent to at least 85.5 operational days in a 90-day quarter. The DWR and all associated subsystems, including AWS and Disdrometer, must operate 24x7 in accordance with IMD's operational requirements. In the event of system failure or non-availability of data from the Radar, AWS, or Disdrometer beyond the stipulated downtime threshold, a penalty of 0.25% of the quarterly COAMC Charges shall be levied for each non-operational day during the COAMC period, as per the payment terms. The total penalty will be calculated on a pro-rata basis among the Radar, AWS, Disdrometer, and any other accessories in proportion to their item-wise cost as specified in the Bill of Quantities (BoQ), and the maximum penalty shall be capped at 10% of the COAMC Charges for the affected instrument(s) for that quarter. If there is continuous non-receipt of data or non-operation of any DWR, AWS, or Disdrometer for more than one month, no quarterly payment shall be made for that particular instrument. A maximum of two weeks (14 days) of planned downtime or data non-availability per year for scheduled maintenance shall be exempted from this clause, provided prior intimation and approval are obtained from IMD. Additionally, any downtime or data unavailability due to force majeure conditions or

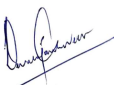
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- external factors beyond human control shall also be excluded from uptime calculations and related penalties.
- 18.9 The mode of payment will be quarterly and it will be made after end of each quarter on the basis of satisfactory performance certificate from user.
- 18.10 "The Bidder" will assist IMD for regular backups of all the software. The "Bidder" is also required to restore the existing Software from the Backups whenever required.
- 18.11 "The Bidder" will also be responsible for configuring the networking components.
- 18.12 The "Bidder" has to submit an undertaking that it will not use IMD data for any commercial purpose.
- 18.13 This contract shall be governed in all respects by Indian Laws.
- 18.14 Bidder shall arrange the necessary sufficient spare parts viz., Solid State Power Amplifier (SSPA), RF receiver, RF Cables, etc., at each site for immediate fault rectification without any delay.

19 SLA requirement of Operational service

19.1 The selected bidder shall be fully responsible for the end-to-end operation and maintenance of the C & X band DWR system along with disdrometer and AWS system at each designated installation site, in accordance with IMD's operational requirements. This includes ensuring uninterrupted 24x7 operation and continuous data availability at respective DWR Site throughout the 3-year Warranty and 7-year COAMC period. In addition, bidder shall be responsible for carrying out regular calibration of DWR with Disdrometer and AWS data as per IMD's operational requirements.

19.2 The bidder shall bear all operational expenditures required to maintain radar functionality. These include, but are not limited to, qualified on-site manpower, Radar system along with associated accessories including AWS and Disdrometers, communication facilities, UPS (including batteries), Physical security, Data Security, housekeeping services, and any other necessary operational resources. However, IMD will separately provide and bear the cost of consumables viz., electricity, Internet bandwidth charges, water, and diesel fuel for the DG set. The bidder is, however, responsible for managing and maintaining the DG system and coordinating timely fuel usage and replenishment.

2 By        

19.3 The bidder shall ensure compliance with all statutory and regulatory requirements necessary for the seamless operation and maintenance of each C & X-Band DWR installation. This includes but is not limited to safety, labor, environmental, and electrical compliance as per Government of India Rules.

19.4 The bidder shall ensure 24x7 availability of radar, AWS, disdrometer data at each C & X-Band DWR site. Any lapse in data availability at respective site or radar system operation shall be treated as system downtime, and penalties shall be imposed in accordance with clause no 12.5 above during warranty period and Clause no 18.8 during COAMC period.

19.5 The bidder must deploy adequate and qualified on-site personnel for the continuous operation, monitoring, basic troubleshooting, security, and upkeep of the DWR system. Responsibilities include:

19.5.1) Regular system operations,
19.5.2) First-level troubleshooting,
19.5.3) Data transmission monitoring,
19.5.4) Coordination with IMD for remote diagnostics,
19.5.5) Compliance with Standard Operating Procedures (SOPs) issued by IMD from time to time.

19.6 The bidder shall carry out scheduled preventive maintenance for the entire C & X band DWR system and associated infrastructure as per clause no 12.9 and 18.6 respectively. This includes, but is not limited to Radar subsystems, Disdrometer, AWS site, DG set, UPS system, routine DG set refuelling coordination, and inspection and functional testing to ensure uninterrupted operations

19.7 The bidder shall maintain comprehensive logs of daily operations, service activities, data uptime status, incident reports, and fault rectification records. A quarterly report must be submitted to IMD, such as performance, Downtime logs (if any), Maintenance activities performed, Manpower deployment records.

19.8 For coordination, review, and performance monitoring of each C & X band DWR, the bidder shall nominate a dedicated Operations Manager as a single point of contact, who will participate in review meetings (virtual or in person) with IMD officials on time to time. In addition to this, IMD officials

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will visit to any of the site on time to time basis for verification of system / records as per tender requirement.

19.9 Any deviation from the required service performance metrics, including but not limited to delayed restoration of services, data outages, or failure to maintain essential infrastructure, shall result in penalties as defined under clause no 12.5 above during warranty period and Clause no 18.8 during COAMC period. Repeated or prolonged deviations may be treated as breach of contract.

19.10 No penalties shall be imposed for downtime or data unavailability arising due to conditions classified under Force Majeure, as per Section IV (General Conditions of Contract - GCC), Clause 9.13.

19.11 Responsibility for Downtime Monitoring:

The successful bidder shall be solely responsible for continuous monitoring of radar health, data availability, and system uptime at each DWR, AWS & Disdrometer site. The bidder shall provide a suitable online mechanism to identify, log, and report any service degradation or downtime events in near real time, along with root cause and mitigation actions.

19.12 Mandatory Downtime Notification:

All downtime incidents exceeding 30 minutes in duration must be immediately notified to IMD via the designated communication protocol (e.g., email, portal notification, or SMS), including timestamped logs, cause analysis, and expected restoration timelines.

19.13 Service monitoring and Uptime Report verification:

IMD shall retain the right to remotely monitor, acknowledge, and flag concerns regarding reported downtimes or service anomalies. A quarterly operational Uptime Report, duly signed by the bidder and verified by IMD's designated officer, shall serve form as the integral part of the bill submitted to IMD.

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19.14 Audit and Escalation:

IMD reserves the right to verify downtime logs and evidence via remote access tools, server logs, or site inspection (if warranted). Any discrepancies or repeated failures to report/restore shall be escalated to the competent authority and may attract penalties as per the tender document.

19.15 Protection of Institutional Reputation:

In case of severe weather events (e.g., cyclones or national alerts or thunderstorms, etc.), the bidder shall ensure proactive coordination with IMD to avoid data unavailability or misreporting. Negligence or willful suppression of downtime during such periods shall be considered a material breach of contract and may result in blacklisting or legal action as per GoI rules.

19.16 Imd has exclusive rights on all the data collected through this contract. Written permission shall be obtained by the firm from IMD for using the data generated from these instruments for calibration and maintenance purposes.

19.17 Bidder shall indemnify IMD from any unforeseen situation that may arise from the operation of RADAR, AWS, Disdrometer, including accidents, fire, and similar events. Bidder shall be solely responsible for the conduct and welfare of the personnel deployed at the site by the bidder.

19.18 The Payment during Warranty Period:

Successful bidder shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to IMD. The bill towards payment during Warranty Period shall be raised quarterly. Payment shall be released on quarterly basis after deducting penalty amount, if applicable and TDS etc. on the submission of certificate of satisfactory services during the period by Radar Division, O/o Director General of Meteorology, based on reports from station.

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The bidder shall submit particulars of his bank account required for making payments.

19.19 The Payment during COAMC period:

Successful bidder shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to IMD. The bill towards payment during COAMC period shall be raised quarterly. Payment shall be released on quarterly basis after deducting penalty amount, if applicable and TDS etc. on the submission of certificate of satisfactory services during the period by Radar Division, O/o Director General of Meteorology, based on reports from station. The bidder shall submit particulars of his bank account required for making payments

19.21 Service level metrics like Response time for repair and Resolution Time:

The bidder shall acknowledge and initiate resolution actions within 2 hours. Bidder shall resolve the problem at the earliest possible time. However, the total penalties shall be calculated as per clause no 12.5 above during warranty period and Clause no 18.8 during COAMC period.

19.22 Adequate Spares of Radar and associated sub systems including AWS and Disdrometer:

The Service provider is advised to stock adequate spares on site based on system specification, to serve as readily usable spares for faulty parts. The equipment parts replaced if required shall be equivalent in performance of existing parts. Faulty Data storage media shall be handed over to IMD. Obsolescence management report for the next ten years to be submitted by the firm during DDR.

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Appendix-A

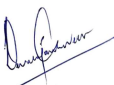
Technical specification for AWS system with sensors.

Temperature and Relative Humidity Sensor with Radiation Shield		
Air Temperature		
a. Sensor type		Pt 100 RTD
b. Measurement Range		-40 °C to +60 °C
c. Accuracy (with radiation shield)		±0.20 °C or better for +10°C to +60 °C ± 0.35 °C or better for -40°C to +10 °C
d. Resolution		0.1 °C
e. Output		Analog/ Digital
Relative Humidity		
a) Measurement Range		0% to 100%
b) Accuracy (including non-linearity, hysteresis and repeatability)		± 3% RH or better with membrane filter (In the Range 10% to 100%)
c) Output		Analog / Digital
d) Resolution		1% or better
e) Sensor type		Capacitive / solid state
Radiation Shield		
a) Type		Thermoplastic
b) Louvered		Minimum 9
c) Ventilation		Natural
d) Mounting Accessories		Aluminium Mounting bracket and Stainless-steel U Bolt clamp
Wind Sensor (Ultrasonic 2 Dimensional)		

Wind Speed		
a) Range (Operation)	:	0 to 60m/s or better
b) Sustainability	:	Up to 60 m/sec
c) Accuracy	:	0.5 m/s or better
d) Resolution	:	0.1 m/s
e) Threshold	:	0.5 m/s
f) Response time	:	1 sec or better
g) Output	:	Digital
Wind Direction		
a) Range	:	0 to 359 Degrees
b) Accuracy	:	±5 degrees or better
c) Resolution	:	1 deg. or better
d) Response time	:	1 sec or better
e) Output	:	Analog/ Digital
Tipping Bucket Rain Gauge sensor or with better technology		
a) Collector Area	:	Specified Collector Area should be between 200 cm ² to 325 cm ²
b) Height above funnel	:	Height above funnel should be sufficient to accumulate rain during heavy rainfall as per WMO guidelines.
c) Switch	:	Rugged Magnetic Proximity
d) Resolution	:	0.5 mm per tip
e) Output	:	0.1 sec switch closure
f) Accuracy	:	±2% or better, for rain rate up to 25 mm/hr ±3% or better, for rain rate between 25mm/hr to 50 mm/hr











		±4% or better, for rain rate between 50mm/hr to 100 mm/hr ±5% or better, for rain rate>100 mm/hr
g) Material of Outer Body/housing (Base/Collector)	:	Rust Proof Housing.
h) Levelling	:	Suitable levelling adjustment screws and circular spirit level must be provided on the base of TBRG for levelling the Tipping bucket Mechanism.
i) Debris protection filter	:	Suitable (Wire mesh) debris protection filter should be provided inside the collector.
Pressure sensor		
a) Range	:	600 to 1100 hPa
b) Accuracy	:	0.2 hPa or better for complete range (600 to 1100 hPa)
c) Resolution	:	0.1 or better
d) Output	:	Digital

POWER SUPPLY

- The complete AWS station shall have capability for unattended operation at remote place using Sealed Maintenance Free (SMF) battery, Electrical charger, Solar charge controller and rechargeable through a Solar panel.
- **Battery:** Single 12 V chargeable SMF battery 65 AH capacity or better.
- The switch with fuse is required for power supply to the Data logger.
- **Electrical charger:** There should be provision of charging the 12 V, 65 AH SMF batteries with 230 V AC Power supply.
- **Solar Charge controller:** It should charge the 12 V, 65 AH SMF battery through 40 W Solar panel and also Over-load protection, Short circuit protection, Protection from the lightning strike and Under-voltage protection.
- **Solar Panel:** Rated capacity 40 W or better, Open Circuit voltage: 21 V or better, Short circuit current: 2.5 A or better.

SPECIFICATIONS OF DATALOGGER, GPRS MODEM AND APPLICATION SOFTWARE FOR DISPAY OF REAL TIME DATA

DATA LOGGER

I. General		
S.no.	Features	Requirements
i)	Power	Shall Operate with 12V Power from Solar panel / Battery. Data Logger should supply controlled Power to all sensors.
ii)	Sampling	Every one second Wind, Temperature, Humidity, Pressure and every one minute Rain Fall
iii)	Ports	Sensors: No of Ports to sample data from above sensors and redundant ports in case of failure of current ports. All Ports used to sample data should be configurable to any digital wind, temperature, pressure sensor and Rainfall available in globe. Facility to connect new sensors to redundant ports (if required). Cables from sensors are directly connected to Ports of Data Logger without any Signal conditioner in between. Having facility to apply slope and Offset for all above sensors to maintain WMO accuracy. All ports are protected from surges due to lightning activities. RS232/USB/Ethernet Port to GPRS with SIM Compulsory Ethernet Port Data Output to local computer which can be configured to any Wireless Modem for communicating to Local Data Processing Computer and slave display computers (All Computers are not part of Tender). Data from Ethernet port to local computer shall be every one second. The data coming out of Ethernet port shall be in the CSV text format
iv)	Quality Checks	Before processing Data Logger shall apply quality checks such as gross error check and time consistency check for sensors be in accordance with WMO No.8 "Guide to Meteorological Instruments and Methods of Observation" Part-III Chapter 1 and Part-II Chapter 1, Seventh Edition, 2008.



v)	Key pad	Inbuilt keypad and inbuilt backlit LCD/LED display with menu driven facility to display the command, data characters. Facility to Input station parameters such as Station ID (Alphanumeric), Station name (Alphanumeric), calibration constants offset and slope of sensors etc.
vi)	Processing & Data storage	Process & Stores data one string in every minute containing one min vector average of Wind direction, speed, Temperature, Humidity, Dew point, Pressure, Mean sea level pressure, Rainfall, Max Temp, Min Temp, 24hrs Rainfall, Battery Voltage, Health status etc. Internal memory of Data Logger is sufficient to store 10 years of 1min average and one min interval. Stored data should be transferred to a commercially available pen drive through a front panel keys. It shall compute & store Daily minimum Temperature at 03UTC, Daily maximum at 12UTC, 24 Hrs Rainfall at 03 UTC.
vii)	RTC	RTC clock should have internal battery for retention of time in absence of External Power supply. Stability Long-term is 1 ppm/year or better.
viii)	Communication to GPRS	GPRS Modem should be external to Data Logger. Stored data every 1min should be communicated via GPRS Modem with single/dual SIM to Central Server. If Data logger unable to send data through GPRS modem for some due to absence of mobile data connectivity the all logged data to be communicated to central server as & when communication link established. Provision to access Data logger from remote for retrieval of data or any purpose with password protection. GPRS Modem in built in the Data Logger is also acceptable provided SIM card slot is external.
ix)	Software	Interface. Software in data Logger is upgradable by transferring upgraded software to Data logger through USB Pen drive

GPRS Modem with SIM Facility

The following technical specifications are indicative.

- Operating on standard SIM card.
- Suitable High gain GPRS Antenna for reliable communication and to connect to nearest mobile tower.
- Operate with 12V DC Power supply.

- d) Provision to configure to SIM Cards used and IP address and Port no of central Data receiving server.
- e) GPRS facility with fast and reliable wireless data communications.
- f) Remote dial-up facility.
- g) Shall support SMS, Email , FTP and TC/IP.
- h) Ethernet/RS 232/RS 485/USB interface with Datalogger.
- i) Indication of network availability (signal strength).

WEATHER PROOF FRP ENCLOSURE FOR AWS

- a) Two separate enclosures are required for AWS.
- b) Weather proof Enclosure of AWS should be FRP Enclosure (IP 66) and for outdoor use to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water.
- c) One enclosure FRP Enclosure (IP 66) is suitable to keep Data logger, solar charge Controller, Pressure sensors, switch with suitable fuse for power supply to Data logger and GPRS modem.
- d) Another separate FRP Enclosure (IP 66) for 12 V, 65 AH SMF batteries.
- e) Silicone gasket is used for both Enclosures for harsh environments and extreme temperatures.
- f) FRP Enclosure (IP 66) enclosures should be designed for outdoor applications that require corrosion protection against chemicals and water. From humble to harsh environments, it safeguards vital electrical and electronic components with enclosures, climate control and accessories to help keep operations up and running smoothly.
- g) Enclosure with hinged door and locking facility.
- h) Data Pockets provide convenient storage for wiring diagrams, operation manuals and other documentation inside an enclosure.

Frangible MAST FOR AWS (Tiltable type / Foldable/Sliding up and down)

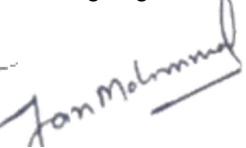


1.	Height	10 m
2.	Wind sustainability	60 m/s
3.	Guy levels	At 6 m
4.	Lightning Arrestor	A lightening arrestor with spiked copper rod of at least 10 meter height should be installed at the top of the mast and connected to an earth pit with copper bars and suitable copper cable. Separate maintenance free type earth pit conforming to the relevant IS specifications should be provided for this purpose.
5.	Cable routing	Provision for cable routing from instrument booms / junction boxes to the bottom of the mast will be provided. The cable bunch has to run in a flexible PVC pipe / with equivalent arrangement from top to the lower end of the tower and into the instrument enclosure








Appendix-B

TECHNICAL SPECIFICATIONS OF THE DISDROMETER

Working principle	Impact of raindrops or hailstones induces change in internal acoustic pressure.
Measuring characteristics	
Measuring surface	160 mm outer diameter hemisphere (402 cm ²)
Precipitation detected by the sensor	Liquid (undifferentiated): rain, drizzle/rain, mixed rain/snow, sleet. Solid: hail.
Rain Intensity accuracy	±15% at 100% duty-cycle (most global precision and accuracy criteria)
Rain DSD	27 classes from ≤ 0.75 mm to ≥ 7.0mm with a detection threshold (minimum detectable diameter) of about 0.5 mm
Measurement accuracy (liquid only)	A spatially distributed flux of controlled drops of a nominal diameter equal to the centre diameter of the class ± 20% produces an output centred in the corresponding class with typically $\approx$ 50% of the flux concentrated into the two lateral size-classes.
Hail detection	Counting of the number of hailstone impacts up to 5 impacts per second and for hailstone diameter detection threshold of 0.5 cm.
Interfaces	
Analog	Pulse and continuous (and persistent) voltages, 0-2.5V or 0-5V
SDI-12	Yes, 1.3 certified (fully complies with the NR Systems SDI-12 Verifier)
Serial 3V3 TTL	Yes
Modbus RTU (RS485)	Yes, with the Modbus adapter accessory
Power Supply	
Voltage	6 V to 30 V DC (9.6 V and 16 V DC in case of powering through the SDI-12 terminals)
Current	< 1 mA in stand-by mode and 20 mA max in acquisition mode. For a typical nominal duty-cycle of 10%: 2.1 mA (20 mA for duty-cycle of 100%).
ENVIRONMENTAL CONDITIONS	
Temperature range	-40°C to +53°C. Can even operate over this range.
Relative humidity	0 to 100%
Protection	IP67, survive to 1 m temporary immersion in salt water

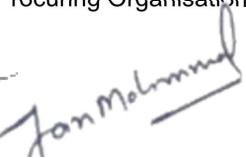
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Standards	EN 61326-1: 2013, CE compliant 2014/30/EU, CE compliant
Mechanical Data	
Material	Stainless steel, plastic and anodized aluminum (breakdown voltage > 40 V/μm)
Installation	Universal mounting kit provided (ordering reference: RFBRA) along with mounting assembly
Weight	1.4 kg without mounting kit
Dimensions (H X W X D)	260 mm X 430 mm X 160 mm with mounting kit








Appendix-C

Tentative sites: List of tentative locations (The exact Location[Lat, Long Coordinates] of each site will be provided to the Successful bidder) for installation of Twenty (20) C-Band dual polarized SSPA based DWRs is as follows:

1. Amini Divi, Lakshadweep
2. Ambikapur, Chhattisgarh
3. Amritsar, Punjab
4. Bellary, Karnataka
5. Bikaner, Rajasthan
6. Darbhanga, Bihar
7. Deoria, Uttar Pradesh
8. Gwalior, Madhya Pradesh
9. Hisar, Haryana
10. Indore, Madhya Pradesh
11. Jabalpur, Madhya Pradesh
12. Jagdalpur, Chhattisgarh
13. Jaisalmer, Rajasthan
14. Jalgaon, Maharashtra
15. Kakinada, Andhra Pradesh
16. Kollam, Kerala
17. Parbhani, Maharashtra
18. Prayagraj, Uttar Pradesh
19. Sri Ganganagar, Rajasthan
20. Udaipur, Rajasthan

Tentative sites: List of tentative locations (The exact Location[Lat, Long Coordinates] of each site will be provided to the Successful bidder) for installation of Twenty five (25) X-Band dual polarized SSPA based DWRs is as follows

1. Ahmedabad, Gujarat
2. Anantnag, J&K
3. Auli, Uttarakhand
4. Baramulla, J&K
5. Bareilly, Uttar Pradesh
6. Bengaluru, Karnataka
7. Bhopal, Madhya Pradesh
8. Coimbatore , Tamil Nadu
9. Deoghar, Jharkhand

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10. Drass, Ladakh
11. Haridwar, Uttarakhand
12. Hyderabad, Telangana
13. Kalpa, Himachal Pradesh
14. Kargil, Ladakh
15. Kishtwar, J&K
16. Mangan, Sikkim
17. Nagpur, Maharashtra
18. Padum, Uttarakhand
19. Pantnagar, Uttarakhand
20. Rajouri, J&K
21. Sabroom, Tripura
22. Surat, Gujarat
23. Tiruchirappalli, Tamil Nadu
24. Tura, Meghalaya
25. Visakhapatnam, Andhra Pradesh

(Signature of the authorized officer of the bidder)

Seal, name & address of the bidder

Name and designation of the officer

A series of handwritten signatures and stamps in blue ink at the bottom of the page. From left to right, there is a circular stamp, a signature, a signature with a star, a signature, the text 'Soma Sen Ray', a signature, a signature, a signature, the text 'Zan Mohammad', and a circular stamp.

2 By: Aspirant Soma Sen Ray Signature Signature Signature Signature Signature Signature Signature

2 By:  Dr. Soma Sen Ray       

2 By:  Dr. Soma Sen Ray        

2 By:  Dr. Soma Sen Ray       

2 By: Dr. Soma Sen Ray

2 By:  Dr. Soma Sen Ray        

- 2 By: Aspirant Soma Sen Ray Signature Aspirant Signature Signature Signature Signature Signature

2 By Aspirant Soma Sen Ray Signature Signature Signature Signature Signature Signature Signature

- 2 By: Aspirant Soma Sen Ray Signature Signature Signature Signature Signature Signature Signature

loss statement/reports, duly authenticated (by a Chartered Accountant/Cost Accountant in) of last three consecutive years shall be submitted along with technical bid.

- ii. The Net worth of the bidder firm (Manufacturer or principal of authorised representative) should not be negative on 31st October 2024 and also should have not eroded by more than 30% (Thirty Percent) in the last three years, ending on 31st March 2025.

3. Earnest Money Deposit (EMD):

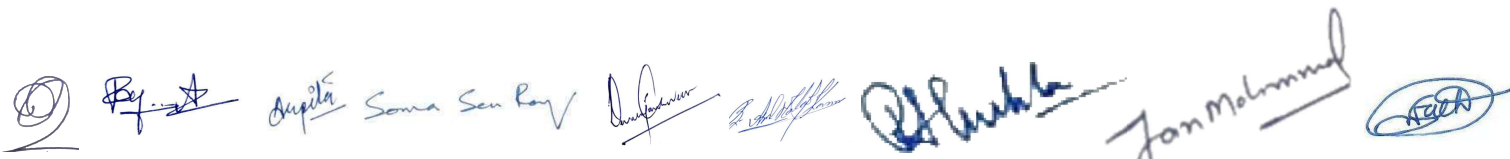
- i. The bidder shall furnish along with its tender, earnest money for an amount as shown in the Notice Inviting Tender (NIT). The earnest money is required to protect the purchaser against the risk of the tenderer's unwarranted conduct. Latest Model Bank Guarantee Format for furnishing EMD in the GFR may be utilized. Format is enclosed as Format 1.4.
- ii. EMD validity shall be 180 days.
- iii. The bidder should enclose bid security (EMD) in the form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque, Bid Security Declaration, Bank Guarantee, Insurance Surety Bond from any of the Commercial Banks drawn in favour of DDO, O/o DGM, IMD, New Delhi. In case of foreign bidders, it may be in the form of a bank guarantee (in equivalent Foreign Exchange amount) issued/ confirmed from any of the commercial banks in India in an acceptable form.
- iv. The tenders without EMD shall be summarily rejected. No exemption for EMD will be entertained. The EMD of the unsuccessful bidders shall be returned without interest after award of work to the successful bidder. The EMD of the successful bidder shall be returned only after the signing of the contract along with performance security deposit. The EMD stands forfeited in case the bidder withdraws or amends his bid after submission of tender document and tender closing date/time.
- v. Bidders claiming exemption of EMD under this rule (170 of GFR) are however required to submit a signed Bid securing declaration (As per Form 7: Documents relating to Bid Security) accepting that if they withdraw or modify their bids during the period of validity, or if they are awarded the contract and they fail to sign the contract, or to submit a performance security before the deadline defined in the request for bids document, they will be suspended for the period of 03 years from being eligible to submit bids for tenders with India Meteorological Department.

Refund of EMD:

- i. EMD of the unsuccessful bidders will be returned to them without any interest, after expiry of the tender validity period.
- ii. EMD of the successful bidder will be returned without any interest, after receipt of performance security from the successful bidder.

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Procuring Organisation

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- iii. Successful bidder shall submit pre-receipt for obtaining back their security.

Forfeiture of EMD:

- i. Earnest money of a bidder will be forfeited, if the bidder withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to notice that the information/ documents furnished in its tender is incorrect, false, misleading or forged without prejudice to other rights of IMD.
- ii. The successful bidder's earnest money will be forfeited without prejudice to other rights of Purchaser if supplier fails to furnish the required performance security within the specified period.
- iii. Firm shall have to extend the validity of EMD if extension of tender validity is agreed on the request of purchaser in exceptional cases.

4. Forms To be filled, digitally signed, and uploaded by Bidders along with the bid as follows:

- (a) Form 1: bid Form (To serve as a covering letter to both the Techno-commercial and Financial Bids)
- (b) Form 1.1: Bidder Information
- (c) Form 1.2: Eligibility Declarations
- (d) Form 1.3: OEM's Authorization
- (e) Form 1.4: Declaration by Agents/ Associates of Foreign Principals/ OEMs
- (f) Form 2: Schedule of Requirements – Compliance
- (g) Form 3: Technical Specifications and Quality Assurance – Compliance
- (h) Form 4: Qualification Criteria – Compliance
- (i) Form 4.1: Performance Statement
- (j) Form 5: Terms and Conditions – Compliance
- (k) Form 6: Checklist for the Bidders
- (l) Form 7: Documents Relating to Bid Security
- (m) Form 8: Integrity Pact
- (n) Financial bid – BOQ Excel Sheet (To be Downloaded from the Portal).

2 By Asmita Soma Sen Ray Asmita Asmita Asmita Asmita Asmita Asmita Asmita

Annexure - III

Price Bid / List of Deliverables (to be utilized by the bidders for quoting their prices)

PRICE SCHEDULE (Financial Bid format) TO BE SUBMITTED BLANK WITH TECHNO-COMMERCIAL BID AND WITH PRICE IN THE FINANCIAL BID.

(KINDLY ENSURE THAT PRICES SHOULD NOT BE REVEALED IN THE TECHNO- COMMERCIAL BID WHICH WILL LEAD TO REJECTION OF THE BID)

The Bidder shall quote rate for supply, install, integrate, testing, & commissioning of 20 C band and 25 X Band Polarimetric Doppler Weather Radar System along with associated systems including AWS and Disdrometer with 3 Years warranty and 7 Years COAMC on turnkey basis at scheduled sites with following deliverables. The list of deliverables shall be same as submitted in the price bid. The price bid shall not be considered if it is not matching with the list of deliverables submitted with technical bids.

Sheet Name: BoQ1

Item Wise BoQ

Tender Inviting Authority: Director General of Meteorology

Name of Work: Procurement, Installation and Commissioning of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

Contract No: CPU/53/0x25/155x

Name of the Bidder/ Bidding Firm / Company :

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Procuring Organisation



PRICE SCHEDULE

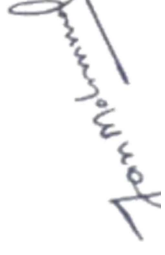
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUM BER #	TE XT #	TEXT#	TEXT #	NUM BER #	NUM BER #	NUM BER #	NUM BER #	TE XT #	NUM BER #	NUM BER #	NUM BER #	NUM BER #	TEXT #
Sl. No.	Item Descripti on	Quan tity	Units	Currency Conver tio n against each Item	Quot ed Cur rency in INR / Other Cur rency	BASI C RATE In Figur es To be enter ed by the Bidd er in Quot ed Cur rency	Cuto m Duty in INR	GST in INR	Any Other Taxes/D uties/ Levies in INR	Ot her Tax es 2 in INR	Perce ntage of Local Conte nt in %	Perce ntage of Foreign Conte nt in %	TOTAL AMOU NT witho ut Taxes in Quot ed Cur rency	TOTAL TAXE S in INR	TOTAL AMOU NT In Words (Exclu ding Taxes in Quot ed Cur rency)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems														
1.01	Supply, Installation, Commissioning of 20 C-Band and 25 X-Band Polarimetric Doppler	1	No s	Full Conversi on	INR										

Section VIII: Qualification Criteria

[233]








[Signature]

[Handwritten signature]

By  Supra Sonu Sen Roy

Tom Mullen

[Signature]

Blanche



Johnny Goldwater

42

[Signature]

Blanche

Tom Molyneux

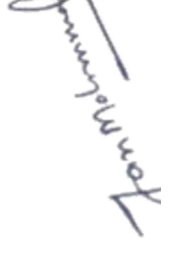
Supra Soma Sen Ray

1.18	Documentation both hard copy and soft copy - (Two copies at each site and two copies at HQ.)	lte m1 8	42	No s												0.000 0	0.000 0	INR Zero Only
1.19	Communication hardware/software for data transfer to control center location.	lte m1 9	21	No s												0.000 0	0.000 0	INR Zero Only
1.20	Standard Tools and Test and measuring equipment sets along with all accessories required for complete set-up to be provided at each site for testing and measuring radar parameters/ offline calibration of radar.	lte m2 0	20	No s												0.000 0	0.000 0	INR Zero Only
1.21	Products (Software)	lte m2 1	20	No s												0.000 0	0.000 0	INR Zero Only
1.22	Two UPS each of minimum 15 KVA capacity or more as per the system requirement.	lte m2 2	20	No s												0.000 0	0.000 0	INR Zero Only

Section VIII: Qualification Criteria

[239]



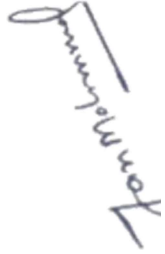




1.23	At least 20 KVA or suitable Green Diesel Generator Set with AMF panel for automatic turn ON when mains fails and capable to takes up the load of all the essential components and accessories of the Radar system required for operation). The DG set should be silent with a separate canopy for operations in all weather conditions.	lte m2 3	20	No s														0.000 0	0.000 0	INR Zero Only
1.24	Three Phase Air Cooled Servo Voltage Stabilizer capacity of 30 KVA, automatic, I/P Voltage(phase to phase) 240-480, O/P Voltage 415(phase to phase) with digital display.	lte m2 4	20	No s														0.000 0	0.000 0	INR Zero Only
1.25	Acceptance testing (Site)	lte m2 5	20	No s														0.000 0	0.000 0	INR Zero Only

[240]

Procuring Organisation



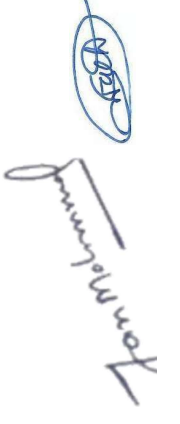




1.26	Installation	lte m2 6	20	No s													0.000 0	0.000 0	INR Zero Only
1.27	Services other than operational and COAMC cost to be included .	lte m2 7	20	No s													0.000 0	0.000 0	INR Zero Only
1.28	Factory Acceptance Test (FAT)	lte m2 8	20	No s													0.000 0	0.000 0	INR Zero Only
1.29	Onsite training at Twenty sites for a period of five working days and at one site at Delhi of central server location (for a period of three working days) in operations and first level fault identification to be provided for 5 (FIVE) IMD officials at each site. Note: Expenses for trainees such as airfare , lodging and per diem to be borne by IMD	lte m2 9	21	No s													0.000 0	0.000 0	INR Zero Only

Section VIII: Qualification Criteria

[241]



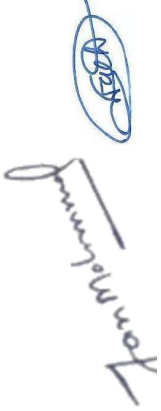




1.30	Factory training in operation, maintenance, calibration and fault identification of the radar system along with modification in & up-gradation in application software to 2 (TWO) IMD officials at the factory premises for a period of 2 weeks. Note: Expenses for trainees such as airfare , lodging and per diem to be borne by IMD	lts m ³ 0	1	No s													0.000 0	0.000 0	INR Zero Only
1.31	AWS Setup as per Appendix-A	lts m ³ 1	20	No s													0.000 0	0.000 0	INR Zero Only
1.32	Impact based Disdrometer as per Appendix-B for Calibration along with necessary software/hardware	lts m ³ 2	20	No s													0.000 0	0.000 0	INR Zero Only
1.33	Additional Tower Height (per 5m) (Optional)* *This cost will not be considered	lts m ³ 3	20	No s													0.000 0	0.000 0	INR Zero Only

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Procuring Organisation



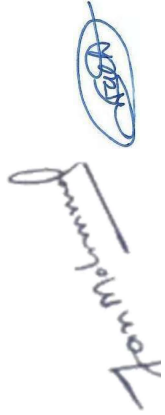




2.07	Radar Application and Operating Software	lte m4 0	25	No s													0.000 0	0.000 0	INR Zero Only
2.08	Peripherals for Central Server at Delhi HQ as per detail at Clause 2, Point 2.52 under Section VII: Technical Specifications and Quality Assurance.	lte m4 1	1	No s													0.000 0	0.000 0	INR Zero Only
2.09	Server with Web GIS at 25 sites & 1 at control command center server at Delhi.	lte m4 2	26	No s													0.000 0	0.000 0	INR Zero Only
2.10	Equipment Shelter	lte m4 3	25	No s													0.000 0	0.000 0	INR Zero Only
2.11	20m Tower including installation inclusive of all civil works required	lte m4 4	25	No s													0.000 0	0.000 0	INR Zero Only
2.12	Any other unit/subunits/ item not listed above but required for functioning of DWR shall also be included	lte m4 5	25	No s													0.000 0	0.000 0	INR Zero Only

[244]

Procuring Organisation



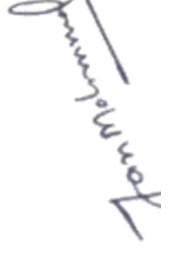




2.13	Any other Services not listed above but required for functioning of DWR shall also be included	lte m4 6	25	No s									0.000 0	0.000 0	INR Zero Only
2.14	Installation material	lte m4 7	25	No s									0.000 0	0.000 0	INR Zero Only
2.15	Obtaining Frequency Clearance from Wireless planning and Coordination for the operation of DWR at all Site for the operation of the Doppler Weather Radars (DWRs)	lte m4 8	25	No s									0.000 0	0.000 0	INR Zero Only
2.16	Noise survey at sites	lte m4 9	25	No s									0.000 0	0.000 0	INR Zero Only
2.17	Levelling upto 3m and fencing of all sites for an area of approx. 30mx30m	lte m5 0	25	No s									0.000 0	0.000 0	INR Zero Only

Section VIII: Qualification Criteria

[245]



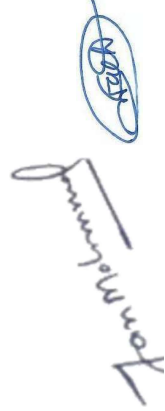




2.18	Documentation both hard copy and soft copy - Two copies at each site and two copies at HQ	lte m5 1	52	No s													0.000 0	0.000 0	INR Zero Only
2.19	Communication hardware/software for data transfer to control center location.	lte m5 2	26	No s													0.000 0	0.000 0	INR Zero Only
2.20	Standard Tools and Test and measuring equipment sets along with all accessories required for complete set-up to be provided at each site for testing and measuring radar parameters/ offline calibration of radar.	lte m5 3	25	No s													0.000 0	0.000 0	INR Zero Only
2.21	Products (Software)	lte m5 4	25	No s													0.000 0	0.000 0	INR Zero Only
2.22	Two UPS each of minimum 15 KVA capacity or more as per the system requirement.	lte m5 5	25	No s													0.000 0	0.000 0	INR Zero Only

[246]

Procuring Organisation



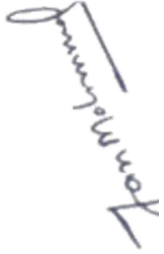




2.23	At least 20 KVA or suitable Green Diesel Generator Set with AMF panel for automatic turn ON when mains fails and capable to takes up the load of all the essential components and accessories of the Radar system required for operation). The DG set should be silent with a separate canopy for operations in all weather conditions.	Item 56	25	No	Full Conversion	INR			0.0000	0.0000	INR Zero Only
2.24	Three Phase Air Cooled Servo Voltage Stabilizer capacity of 30 KVA, automatic, I/P Voltage(phase to phase) 240-480, O/P Voltage 415(phase to phase) with digital display.	Item 57	25	No	Full Conversion	INR			0.0000	0.0000	INR Zero Only

Section VIII: Qualification Criteria

[247]



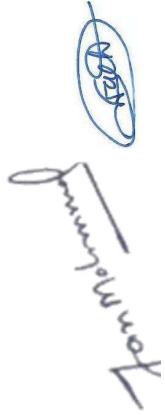




2.25	Acceptance testing (Site)	lte m5 8	25	No s													0.000 0	0.000 0	INR Zero Only
2.26	Installation	lte m5 9	25	No s													0.000 0	0.000 0	INR Zero Only
2.27	Services other than operational and COAMC cost to be included .	lte m6 0	25	No s													0.000 0	0.000 0	INR Zero Only
2.28	Factory Acceptance Test (FAT)	lte m6 1	25	No s													0.000 0	0.000 0	INR Zero Only
2.29	Onsite training at Twenty five sites for a period of five working days and at one site at Delhi of central server location (for a period of three working days) in operations and first level fault identification to be provided for 5 (FIVE) IMD officials at each site. Note: Expenses for trainees such as airfare , lodging and per diem to be borne by IMD	lte m6 2	26	No s													0.000 0	0.000 0	INR Zero Only

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Procuring Organisation

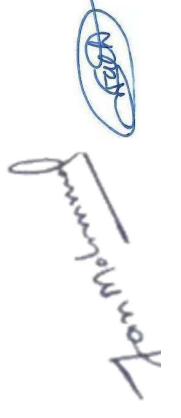



2.30	Factory training in operation, maintenance, calibration and fault identification of the radar system along with modification in & up-gradation in application software to 2(TWO) IMD officials at the factory premises for a period of 2 weeks. Note: Expenses for trainees such as airfare , lodging and per diem to be borne by IMD	lte m6 3	1	No s	Full Conversion	INR						0.0000	0.0000	INR Zero Only
2.31	AWS Setup as per Appendix-A	lte m6 4	25	No s	Full Conversion	INR						0.0000	0.0000	INR Zero Only
2.32	Impact based Disdrometer as per Appendix-B for Calibration along with necessary software/hardware	lte m6 5	25	No s	Full Conversion	INR						0.0000	0.0000	INR Zero Only
2.33	Additional Tower Height (per 5m) (Optional)*	lte m6 6	20	No s	Full Conversion	INR						0.0000	0.0000	INR Zero Only

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Section VIII: Qualification Criteria






[Signature]

Blanche

Supra Sonar Sen Roy



Tom Mullen

Procuring Organisation

Instructions for Filling the Bill of Quantities (BoQ):

1. Price shall be submitted in BoQ **Excel sheet** only
2. The BoQ comprises two sheets: **"BoQ1"** and **"Reference Sheet."**
3. Bidders are required to fill in the following fields in the **"BoQ1"** sheet:
 - **"Name of the Bidder / Bidding Firm / Company"**
 - **"Currency Conversion against each Item"** (Column ID 5)
 - **"Quoted Currency in INR / Other Currency"** (Column ID 6)
 - **"Percentage of Local Content in %"** (Column ID 12)
 - **"Percentage of Foreign Content in %"** (Column ID 13)
4. For Column ID 5 in the **"BoQ1"** sheet:
 - If the quoted currency is INR, select "Full Conversion." in column ID 5
 - If the quoted currency is other than INR, select "Partial Conversion." in column ID 5
5. After selecting the currency in the **"BoQ1"** sheet, bidders must also fill the following columns in the **"Reference Sheet"**:
 - **Percentage of Local Content** (Column ID 6)
 - **Percentage of Foreign Content** (Column ID 7)
 - **Columns ID 10,11, 12, 13, and 14**
6. Bidders must enter the rate for each item in "Reference Sheet" based on the **quoted currency** as specified in **Column ID 6** of the **"BoQ1"** sheet.
7. **Item No. 1.33 and 2.33 – Optional Additional Tower Height (per 5 meters)** is included in the **Reference Sheet**. As per the tender document, this item **shall not** be considered in the total price evaluation. However, bidders **must** provide the corresponding cost for record-keeping.
8. Item-wise pricing must include the cost of Operational Services, Warranty, and COAMC as part of the bundled cost. As per Payment terms, IMD will make payment of 5% cost during warranty period and 20% cost during COAMC period.
9. Bidders shall enter rates **greater than zero** in the **"Basic Rate"** column (Column ID 10) of the **Reference Sheet**. **Blank cells or zero values are not permitted.**



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10. All the tax component (Columns ID 11,12, 13, and 14) must be entered in INR for the total quantity (Column ID 4) in the reference sheet. However, Basic rate shall be entered for single quantity in the quoted currency (Column ID 10).
11. C-Band and X-Band DWRs quantity shall not be splitted. L1 shall be arrived based on the least cost quoted by a firm. i.e. Total price for both X-Band and C-Band DWRs.
12. The deliverables list attached with financial bid must be exactly same as per the technical bids.
13. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
14. All applicable taxes must be mentioned against each item. Rate of each applicable tax must be mentioned in price bid. If taxes not mentioned, then it is treated that price quoted is inclusive of taxes.
15. The Total Price is inclusive of 3 years warranty followed by 7 years COAMC for all the terms mentioned above as a single bundled price.

Non-compliance with any of the above instructions shall render the bid as non-responsive.

Signature of Bidder_____

Seal of the Bidder_____

② By A Angita Soma Sen Ray [Signature] [Signature] [Signature] [Signature]

BIDDING FORMS

2 By   Soma Sen Ray     

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2 By   Soma Sen Ray     

Form 1: Bid Form (Covering Letter)

(Ref ITB-clause 9.2)

(To be submitted as part of Technical bid, along with supporting documents, if any)

(On Bidder's Letter-head)

(Strike out alternative phrases not relevant to you)

Bidder's Name _____

[Address and Contact Details]

Bidder's Reference No. _____ Date.....

To

The President of India, through

Head of Procurement

Procuring Organisation

[Complete address of the Procuring Entity]

Ref: Your Tender Document No. CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

Sir/ Madam

Having examined the abovementioned Tender Document, we, the undersigned, hereby submit/ upload our Techno-commercial and Financial bid (Price Schedule) for the supply of Goods and incidental Works/ Services in conformity with the said Tender Documents.

(Please tick appropriate boxes or strike out sentences/ phrases not applicable to you)

1) Our Credentials:

(a) We are submitting this bid: -

- ☐ on our behalf, and there are no agents/ dealers involved in this tender, and hence no agency agreement or payments/ commissions/ gratuity is involved. Our company law and taxation regulatory requirements and authorization for signatories and related documents are submitted in Form 1.1 (Bidder Information).

Or

A series of handwritten signatures and initials in blue ink are located at the bottom of the page. From left to right, they include a circular stamp, a signature starting with 'By', a signature that appears to be 'Anita', a signature 'Soma Sen Roy', a signature 'Anita', a signature 'B. K. S. S.', a signature 'B. K. S. S.', a signature 'B. K. S. S.', a signature 'B. K. S. S.', and a signature 'B. K. S. S.'.

- ☐ as authorised dealer offering goods manufactured by our OEMs. Our OEM's law and taxation regulatory requirements and authorization for signatories and related documents are submitted in Form 1.3 (OEM's Authorization).

Or

- ☐ as agents/associates of our foreign principals. Our foreign principal's law and taxation regulatory requirements, as well as authorization for signatories and related documents, are submitted in Form 1.4 (Declaration by Agents/ Associates of Foreign Principals/ OEMs).

- (b) We..... hereby certify that ☐ We/ ☐ our Principals/ OEM M/ s..... are proven, established, and reputed manufacturers with factories at which are fitted with modern equipment and where the production methods, quality control, and testing of all materials and parts manufactured or used by us shall be open to inspection by the representative of the Procuring Entity.

2) Our Eligibility and Qualifications to participate

We comply with all the eligibility criteria stipulated in this Tender Document, and the relevant declarations are made along with documents in Form 1.2 of this bid-form. We fully meet the qualification criteria stipulated in this Tender Document, and the relevant details are submitted along with documents in Form 4: 'Qualification Criteria - Compliance.

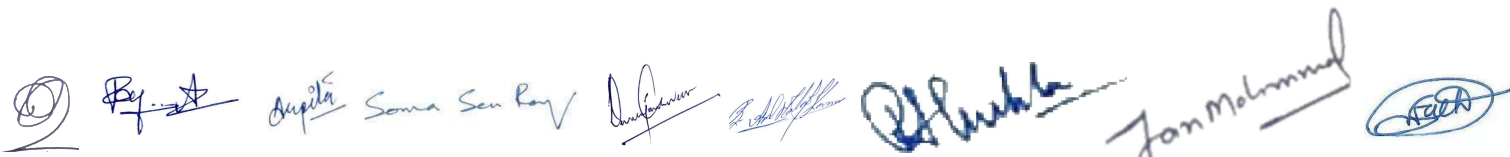
3) Our Bid to supply Goods:

We offer to supply the subject Goods of requisite quality and within Delivery Schedules in conformity with the Tender Document. The relevant details are submitted in Form 2: 'Schedule of Requirements - Compliance and Form 3: 'Technical Specifications and Quality Assurance - Compliance.'

4) Prices:

We hereby offer to perform the Services at our lowest prices and rates mentioned in the separately uploaded Price-Schedule. It is hereby confirmed that the prices quoted therein by us are:

- (a) based on terms of delivery and delivery schedule confirmed by us; and
- (b) Cost break-up of the quoted cost, showing inter-alia costs (including taxes and duties thereon) of all the included incidental Goods/ Works considered necessary to make the proposal self-contained and complete, has been indicated therein, and
- (c) based on the terms and mode of payment as stipulated in the Tender Document. We have understood that if we quote any deviation to terms and mode of payment, our bid is liable to be rejected as nonresponsive, and



- (d) have been arrived at independently, without restricting competition, any consultation, communication, or agreement with any other bidder or competitor relating to:
 - i) those prices; or
 - ii) the intention to submit an offer; or
 - iii) the methods or factors used to calculate the prices offered.
- (e) have neither been nor shall be knowingly disclosed by us, directly or indirectly, to any other bidder or competitor before bid opening or contract award unless otherwise required by law.

5) Affirmation to terms and conditions of the Tender Document:

We have understood the complete terms and conditions of the Tender Document. We accept and comply with these terms and conditions without reservations, although we are not signing and submitting some of the sections of the Tender Document. Deviations, if any, are submitted by us in Form 5: 'Terms and Conditions - Compliance'. We also explicitly confirm acceptance of the Arbitration Agreement as given in the Tender Document.

6) Bid Securing Declaration

We have submitted the Bid Securing Declaration (BSD, in lieu of Bid Security) in stipulated format vide Form 7: 'Documents Relating to bid security.'

7) Abiding by the Bid Validity

We agree to keep our bid valid for acceptance for a period upto -----, as required in the Tender Document or for a subsequently extended period, if any, agreed to by us and are aware of penalties in this regard stipulated in the Tender Document in case we fail to do so.

8) Non-tempering of Downloaded Tender Document and Uploaded Scanned Copies

We confirm that we have not changed/ edited the contents of the downloaded Tender Document. We realise that any such change noticed at any stage, including after the contract award, shall be liable to punitive action in this regard stipulated in the Tender Document. We also confirm that scanned copies of documents/ affidavits/ undertakings uploaded along with our Technical bid are valid, true, and correct to the best of our knowledge and belief. If any dispute arises related to the validity and truthfulness of such documents/ affidavits/ undertakings, we shall be responsible for the same. Upon accepting our Financial bid, we undertake to submit for scrutiny, on-demand by the Procuring Entity, originals, and self-certified copies of all such certificates, documents, affidavits/ undertakings.

9) A Binding Contract:

Form 1: bid Form (Covering Letter)

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We further confirm that, if our bid is accepted, all such terms and conditions shall continue to be acceptable and applicable to the resultant contract, even though some of these documents may not be included in the contract Documents submitted by us. We do hereby undertake that, until a formal contract is signed or issued, this bid, together with your written Letter of Award (LoA), shall constitute a binding contract between us.

10) Performance Guarantee and Signing the contract

We further confirm that, if our bid is accepted, we shall provide you with performance security of the required amount stipulated in the Tender Document for the due performance of the contract. We are fully aware that in the event of our failure to deposit the required security amount and/ or failure to execute the agreement, the Procuring Entity has the right to avail any or all punitive actions laid down in this regard, stipulated in the Tender Document.

11) Signatories:

We confirm that we are duly authorized to submit this bid and make commitments on behalf of the Bidder. Supporting documents are submitted in Form 1.1 annexed herewith. We acknowledge that our digital/digitized signature is valid and legally binding.

12) Rights of the Procuring Entity to Reject bid(s):

We further understand that you are not bound to accept the lowest or any bid you may receive against your above-referred Tender Document.

.....

(Signature with date)

.....

(Name and designation)

Duly authorized to sign bid for and on behalf of

[name & address of Bidder and seal of company]

2 By Asmita Soma Sen Ray Asmita Asmita Asmita Asmita Asmita Asmita Asmita

Form 1.1: Bidder Information

(Ref 8.2 of ITB)

(To be submitted as part of Technical bid)

(On Company Letter-head)

(Along with supporting documents, if any)

Bidder's Name _____

[Address and Contact Details]

Bidder's Reference No. _____ Date.....

Tender Document No. CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

Note: Bidder shall fill in this Form following the instructions indicated below. No alterations to its format shall be permitted, and no substitutions shall be accepted. Bidder shall enclose certified copies of the documentary proof/ evidence to substantiate the corresponding statement wherever necessary and applicable. Bidder's wrong or misleading information shall be treated as a violation of the Code of Integrity. Such Bids shall be liable to be rejected as nonresponsive, in addition to other punitive actions provided for such misdemeanours in the Tender Document.

(Please tick appropriate boxes or strike out sentences/ phrases not applicable to you)

1) Bidder/ Contractor particulars:

- (a) Name of the Company:.....
- (b) Corporate Identity No. (CIN):
- (c) Registration, if any, with The Procuring Entity:
- (d) GeM Supplier ID (if registered with GeM, it is mandatory at the time of placement of Contract)
- (e) Place of Registration/ Principal place of business/ manufacture
- (f) Complete Postal Address:
- (g) Pin code/ ZIP code:
- (h) Telephone nos. (with country/ area codes):
- (i) Mobile Nos.: (with country/ area codes):
- (j) Contact persons/ Designation:
- (k) Email IDs:

Submit documents to demonstrate eligibility as per NIT-Clause 3 and ITB-clause 3.2 - A self-certified copy of registration certificate – in case of a partnership firm – Deed of Partnership;

(Handwritten signatures and stamps at the bottom of the page)

in case of Company – Notarized and certified copy of its Registration; and in case of Society – its Byelaws and registration certificate of the firm.

2) Taxation Registrations:

- (a) PAN number:
 - (b) Type of GST Registration as per the Act (Normal Taxpayer, Composition, Casual Taxable Person, SEZ, etc.):
 - (c) GSTIN number: in Consignor and Consignee States
 - (d) Registered/ Certified Works/ Factory where the Goods would be mainly manufactured and Place of Consignor for GST Purpose:
 - (e) Contact Names, Nos. & email IDs for GST matters (Please mention primary and secondary contacts):
- ☐ We solemnly declare that our GST rating on the GST portal/ Govt. official website is not negative/ blacklisted.

Documents to be submitted: Self-attested Copies of PAN card and GSTIN Registration.

3) Authorization of Person(s) signing the bid on behalf of the Bidder

- (a) Full Name: _____
- (b) Designation: _____
- (c) Signing as:
 - ☐ A sole proprietorship firm. The person signing the bid is the sole proprietor/ constituted attorney of the sole proprietor,
 - ☐ A partnership firm. The person signing the bid is duly authorised being a partner to do so, under the partnership agreement or the general power of attorney,
 - ☐ A company. The person signing the bid is the constituted attorney by a resolution passed by the Board of Directors or in pursuance of the Authority conferred by Memorandum of Association.

Documents to be submitted: Registration Certificate/ Memorandum of Association/ Partnership Agreement/ Power of Attorney/ Board Resolution

4) Bidder's Authorized Representative Information

- (a) Name:
- (b) Address:
- (c) Telephone/ Mobile numbers:
- (d) Email Address:



(Signature with date)

.....

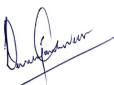
(Name and designation)

Duly authorized to sign bid for and on behalf of

[name & address of Bidder and seal of company]

DA: As above

.....

2 By   Soma Sen Ray     

Form 1.2: Eligibility Declarations

(Ref ITB-clause 9.2)

(To be submitted as part of Technical bid)

(On Company Letter-head)

(Along with supporting documents, if any)

Tender Document No. CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

Bidder's Name _____

[Address and Contact Details]

Bidder's Reference No. _____ Date.....

Note: The list below is indicative only. You may attach more documents as required to confirm your eligibility criteria.

Eligibility Declarations

(Please tick appropriate boxes or cross out any declaration not applicable to the Bidder)

We hereby confirm that we are comply with all the stipulation of NIT-clause 3 and ITB-clause 3.2 and declare as under and shall provide evidence of our continued eligibility to the Procuring Entity as may be requested:

- 1) **Legal Entity of Bidder:** _____
- 2) **OEM/ Manufacturer/ Agent/ Dealership Status:** _____
- 3) We ☐ are/ ☐ are not a JV _____
- 4) We solemnly declare that we (including our affiliates or subsidiaries or constituents):
 - a) are not insolvent, in receivership, bankrupt or being wound up, not have our affairs administered by a court or a judicial officer, not have our business activities suspended and are not the subject of legal proceedings for any of these reasons;
 - b) (including our Contractors/ subcontractors for any part of the contract):
 - (i) Do not stand declared ineligible/ blacklisted/ banned/ debarred by the Procuring Organisation or its Ministry/ Department from participation in its Tender Processes; and/ or
 - (ii) Are not convicted (within three years preceding the last date of bid submission) or stand declared ineligible/ suspended/ blacklisted/ banned/



debarred by appropriate agencies of Government of India from participation in Tender Processes of all of its entities, for offences mentioned in Tender Document in this regard. We have neither changed our name nor created a new "Allied Firm", consequent to the above disqualifications.

- c) Do not have any association (as bidder/ partner/ Director/ employee in any capacity) with such retired public official or near relations of such officials of Procuring Entity, as counter-indicated, in the Tender Document.
- d) We certify that we fulfil any other additional eligibility condition if prescribed in Tender Document.
- e) We have no conflict of interest, which substantially affects fair competition. The prices quoted are competitive and without adopting any unfair/ unethical/ anti-competitive means. No attempt has been made or shall be made by us to induce any other bidder to submit or not to submit an offer to restrict competition.

5) Restrictions on procurement from bidders from a country or countries, or a class of countries under Rule 144 (xi) of the General Financial Rules 2017: We certify as under:

"We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries, and solemnly certify that we fulfil all requirements in this regard and are eligible to be considered. We certify that:

- (a) *we are not from such a country or, if from such a country, we are registered with the Competent Authority (copy enclosed). and;*
- (b) *we shall not subcontract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.*

6) MSME Status:

Having read and understood the Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 (as amended and revised till date), and solemnly declare the following:

- a) We are - Micro/ Small/ Medium Enterprise/ SSI/ Govt. Deptt. / PSU/ Others:.....
- b) We attach herewith, Udhyam Registration Certificate with the Udhyam Registration Number as proof of our being MSE registered on the Udhyam Registration Portal. The certificate is the latest up to the deadline for submission of the bid.
- c) Whether Proprietor/ Partner belongs to SC/ ST or Women category. (Please specify names and percentage of shares held by SC/ ST Partners):.....

7) Start-up Status

we confirm that we ☐ are/ ☐ are not a Start-up entity as per the definition of the Department of Promotion of Industrial and Internal Trade – DPIIT.

8) Make in India Status:

Having read and understood the Public Procurement (Preference to Make in India PPP - MII) Order, 2017 (as amended and revised till date) and related notifications from the relevant Nodal Ministry/ Department, and solemnly declare the following:

(a) Self-Certification for the category of suppliers:

(Provide a certificate from statutory auditors/ cost accountant in case of Tenders above Rs 10 Crore for Class-I or Class-II Local Suppliers). Details of local content and location(s) at which value addition is made are as follows:

Local Content and %age	
Location(s) of value addition	

Therefore, we certify that we qualify for the following category of the supplier (tick the appropriate category):

☐ Class-I Local Supplier/

☐ Class-II Local Supplier/

☐ Non-Local Supplier.

(b) We also declare that

☐ There is no country whose bidders have been notified as ineligible on a reciprocal basis under this order for an offered Goods, or

☐ We do not belong to any Country whose bidders are notified as ineligible on a reciprocal basis under this order for the offered Goods.

9) Self-Declaration by Indian Agents/ Associates of Foreign Principals

(a) Self-attested documentary evidence about their identity (PAN, Aadhar Card, GSTIN registration, proof of address, etc.), business details (ownership pattern and documents, type of firm, year of establishment, sister concerns etc.) to establish that they are a bonafide business as per Indian Laws – are submitted as part of Form 1.1 annexed herewith.

(b) Agency Agreement shall be submitted with Form 1.4. It shall cover

(i) the precise relationship, services to be rendered, mutual interests in business - generally and/ or specifically for the tender and

- (ii) any payment the agent or associate receives in India or abroad from the foreign OEM/ principal, whether a commission or a general retainer fee.
- (c) Our Foreign principals, explicitly authorizing us to make an offer in response to the tender, either directly or in association with them, are listed in Form 1.3 and 1.4 annexed herewith. That also indicates their name, address, nationality, status (i.e., whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal).
- (d) The amount of commission/ remuneration included in the price (s) quoted by Bidder for agents or associated bidder is detailed in Form 1.4.
- (e) Confirmation is given in Form 1.4 annexed herewith from the foreign principals that the commission/ remuneration, reserved for Bidder in the quoted price(s), if any, shall be paid by the Procuring Entity in India, in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Goods and Spares.

10) Penalties for false or misleading declarations:

We hereby confirm that the particulars given above are factually correct and nothing is concealed and undertake to advise any future changes to the above details. We understand that any wrong or misleading self-declaration would violate the Code of Integrity and attract penalties as mentioned in this Tender Document.

.....

(Signature with date)

.....

(Name and designation)

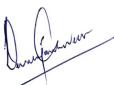
Duly authorized to sign bid for and on behalf of

.....

.....

[name & address of Bidder and seal of company]

DA: As in Sr 9 to 14 above, as applicable

By   Soma Sen Ray       

Form 1.3: OEM's Authorization

(Ref ITB-clause 9.2)

(On Company Letter Head)

(To be submitted as part of Technical bid)

OEM's Name _____

[Address and Contact Details]

OEM's Reference No. _____ Date.....

The President of India, through

Head of Procurement

Procuring Organisation

[Complete address of the Procuring Entity]

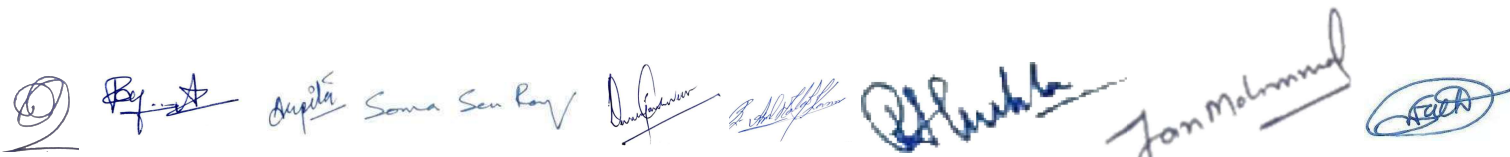
Dear Sirs,

Ref. Your Tender Document No.CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

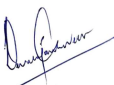
- 1) We, -----, are proven and reputable manufacturers of the Tendered Goods. We have factories at----- . We hereby authorise Messrs-----
(name and address of the authorised dealer) to submit a bid, process the same further and enter into a contract with you against above referred Tender Process for the supply of above Goods manufactured by us. Their registration number with us is, dated/ since.....
- 2) We further confirm that no Contractor or firm or individual other than Messrs. (name and address of the above-authorised dealer) is authorized for this purpose.
- 3) As principals, we commit ourselves to extend our full support for warranty obligations, as applicable as per the Tender Document, for the Goods and incidental Works/ Services offered for supply by the above firm against this Tender Document.
- 4) Our details are as under:
 - (a) Name of the Company:.....
 - (b) Complete Postal Address:
 - (c) Pin code/ ZIP code:
 - (d) Telephone nos. (with country/ area codes):
 - (e) Fax No.: (with country/ area codes):

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Procuring Organisation



- (f) Mobile Nos.: (with country/ area codes):
- (g) Contact persons/ Designation:
- (h) Email IDs:

2 By   Soma Sen Ray     

- 5) We enclose herewith, as appropriate, *our ----- (Bye-Laws/ Registration Certificate/ Memorandum of Association/ Partnership Agreement/ Power of Attorney/ Board Resolution)*

Yours faithfully,

.....

[signature with date, name, and designation]

for and on behalf of Messrs.....

[name & address of the OEM and seal of company]

DA: As above

A series of handwritten signatures and stamps in blue ink at the bottom of the page. From left to right, there is a circular stamp, a signature, a signature with a star, a signature, the text 'Soma Sen Ray', a signature, a signature, a large signature, the text 'Zan Mohammad', and a circular stamp.

Form 1.4: Declaration by Agents/ Associates of Foreign Principals

(Required only for Agents/ Associates of Foreign Principals)

(Ref Clause 3.5 of ITB)

(On Company Letter Head)

(Along with supporting documents, if any)

(To be submitted as part of Technical bid)

Agent's Name _____

[Address and Contact Details]

Principal's Reference No. _____ Date.....

The President of India, through

Head of Procurement

Procuring Organisation

[Complete address of the Procuring Entity]

Dear Sirs,

Ref. Your Tender Document No. CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

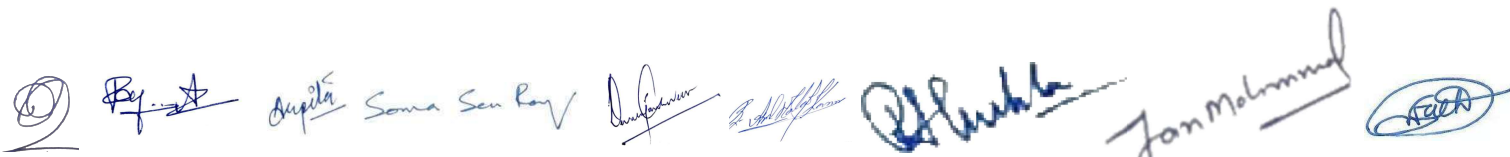
- 1) We, ..., are a bonafide business as per Indian Laws. We have been retained as agent/ associates by our foreign principals/ OEM, Messrs..... (*name and address of the principal*) to associate with them for participation in this Tender Process.
- 2) We understand that any failure or non-disclosures, or mis-declarations by us, shall be treated as a violation of the Code of Integrity. Our Bids shall be liable to be rejected as nonresponsive, in addition to other punitive actions by the Procuring Entity as per the Tender Document.
- 3) The required details as per ITB-clause 3.5 are as follows.
 - (a) Name of the Agent/ Associate:.....
 - (b) Documents regarding ownership pattern: as appropriate – Bye Laws/ Registration Certificate/ Memorandum of Association/ Partnership Agreement/ Power of Attorney/ Board Resolution.
 - (c) Year of establishment.....
 - (d) Sister Concerns.....

Form 1.4: Declaration by Agents/ Associates of Foreign Principals

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A series of handwritten signatures and stamps are located at the bottom of the page. From left to right, there is a circular stamp, a signature, a signature with a star, a signature, the name 'Soma Sen Roy' written in blue ink, a signature, another signature, a signature, the name 'Zan Mohammad' written in blue ink, and a circular stamp.

- (e) Corporate Identity No. (CIN):
 - (f) Aadhar Card of Owner/ CEO/ Partner
 - (g) PAN number:
 - (h) Complete Postal Address:
 - (i) Pin code/ ZIP code:
 - (j) Telephone nos. (with country/ area codes):
 - (k) Mobile Nos.: (with country/ area codes):
 - (l) Contact persons/ Designation:
 - (m) Email IDs:
 - (n) Type of GST Registration (Registered, Unregistered, Composition, SEZ, RCM etc.):
.....
 - (o) GSTIN number: in Consignor and Consignee States
 - (p) Registered office from where agency/ association services would be mainly
provided for GST Purpose:
 - (q) Contact Names, Nos. & email IDs for GST matters (Please mention primary and
secondary contacts):
- 4) Details required under ITB-clause 3.5 regarding the foreign principal/ OEM are given
below.
- (a) Name of the Company:.....
 - (b) Nationality/ Country of operation/ incorporation.....
 - (c) Status:
 - (i) manufacturer or
 - (ii) agents of manufacturer holding the Letter of Authority of the Principal,
specifically authorizing the agent to make an offer in India in response to
tender either directly or through the agents/ representatives.
 - (d) Complete Postal Address:
 - (e) Telephone nos. (with country/ area codes):
 - (f) Mobile Nos.: (with country/ area codes):
 - (g) Contact persons/ Designation:
 - (h) Email IDs:
- 5) *Because of price-sensitive information*, agency/ dealership/ any other agreement
with foreign principals/ OEM shall be submitted as per ITB-clause 3.5, on-demand,
after the Financial bid opening. It shall contain details of payments of all
commissions, gratuities, or fees concerning the tender process or execution of the
contract that we have paid/ received, or shall pay/ receive, as per the following
format:



Name of Recipient	Address	Services to be provided	Amount and Currency

- 6) Our principals have authorized us to confirm that the commission/ remuneration, if any, to us under the contract shall be paid in India, in equivalent Indian Rupees, on satisfactory completion of the Project or supplies of Goods and Spares.
- 7) We enclose herewith: as appropriate, our ----- Bye-Laws/ Registration Certificate/ Memorandum of Association/ Partnership Agreement/ Power of Attorney/ Board Resolution

Yours faithfully,

.....

.....

[signature with date, name, and designation]

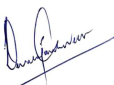
for and on behalf of Messrs.....

[name & address of the OEM and seal of company]

DA: 1. As above











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2 By   Soma Sen Ray     

Form 2: Schedule of Requirements - Compliance

Schedule of Requirements

(Ref ITB-clause 9.2, Schedule VI: Schedule of Requirements)

(To be submitted as part of Technical bid)

(on Company Letter-head)

Tender Document No. CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

Bidder's Name _____

[Address and Contact Details]

Bidder's Reference No. _____ Date.....

Note to Bidders: Fill up this Form regarding Section VI: Schedule of Requirements maintaining the same numbering and structure. Add additional details not covered elsewhere in your bid in this regard.

**Basic Price Per Unit*

Tender Title										
Tender Reference No		CPU/53/0x25/155x								
Schedule	Item Sr	HSN Code	⁴ GST %	Local Content (%)	Description of Goods	Quantity	Units of Quantity	Delivery offered	Destination, State	Bidder's GSTIN
1	2	3	4	5	6	7	8	9	10	11
Schedule-1	1.1									
	1.2									
	1.3									
Schedule-2	2.1									
	2.2									
	2.3									

(1) Background of Goods offered:

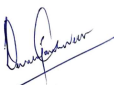
(2) Transportation:

(3) Delivery Schedule:

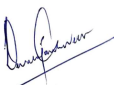
⁴ Mention total % and breakup into CGST, SGST, IGST, Cess etc.

Form 2: Schedule of Requirements – Compliance

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By:  Soma Sen Roy       

- (4) Terms of Delivery:
- (5) Scope of Supply (Accessories, Spare Parts):
- (6) Incidental Works/ Services:

 By   Soma Sen Ray     

Deviations from Schedule of Requirements

Note to Bidders: Highlight deviations, if any, from Section VI: Schedule of Requirements in this Form.

Sl. No.	Ref of Tender Document Section, Clause		Subject	Confirmation/ Deviation/ Exception/ reservation	Justification/ Reason
	Section	Clause/ sub-clause			

We shall comply with, abide by, and accept without variation, deviation, or reservation all requirements detailed in Section IV: Schedule of Requirements in the Tender Document, except those mentioned above. If mentioned elsewhere in our bid, contrary terms and conditions shall not be recognised and shall be null and void.

.....

(Signature with date)

.....

(Name and designation)

Duly authorized to sign bid for and on behalf of

.....

[name & address of Bidder and seal of company]











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2 By   Soma Sen Ray     

Form 3: Technical Specifications and Quality Assurance - Compliance

(Ref ITB-clause 9.2, Schedule VII: Technical Specifications and Quality Assurance)

(To be submitted as part of Technical bid)

(on Company Letter-head)

Tender Document No.CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

Bidder's Name _____

[Address and Contact Details]

Bidder's Reference No. _____ Date.....

Note to Bidders: Highlight in this form deviations, if any, from Section VII: Technical Specifications and Quality Assurance, maintaining the same numbering and structure. Submit copies of original test certificates for standards/ specification tests on the Goods and other relevant documents like technical data, literature, drawings, etc. Add additional details not covered elsewhere in your bid in this regard.

Sl. No.	Ref of Technical Specification and Quality Assurance Clause		Subject	Confirmation/ Deviation/ Exception/ reservation	Justification/ Reason
	Section	Clause/ sub-Clause			

We shall comply with, abide by, and accept without variation, deviation, or reservation all Technical Specifications, Quality Assurance and Warranty requirements in the Tender Document, except those mentioned above. If mentioned elsewhere in our bid, contrary terms and conditions shall not be recognised and shall be null and void.

.....

(Signature with date)

.....



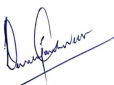
(Name and designation)

Duly authorized to sign bid for and on behalf of

.....

[name & address of Bidder and seal of company]

DA: Relevant documents like technical data, literature, drawings, and other documents

 By   Soma Sen Ray     

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2 By   Soma Sen Ray     

Form 4: Qualification Criteria - Compliance

(Ref ITB-clause 9.2, Schedule VIII Qualification Criteria)

(To be submitted as part of Technical bid)

(on Company Letter-head)

Tender Document No. CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

Bidder's Name _____

[Address and Contact Details]

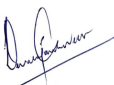
Bidder's Reference No. _____ Date.....

Note to Bidders: Furnish statements and documents to confirm conformity to Qualification Criteria may be mentioned/ attached here. The list below is indicative only. You may attach more documents as required for qualification criteria. Add additional details not covered elsewhere in your bid in this regard. Non-submission or incomplete submission of documents may lead to rejection of the bid as nonresponsive. Also highlight in this form deviations, if any, from Section VIII: Qualification Criteria.

- 1) Location of the manufacturing Factory
- 2) Details of Plant and Machinery executed and function in each department
(Monographs & description pamphlets) be supplied, if available.
- 3) Details of arrangement for quality control of products such as laboratory etc
- 4) Details of Technical Supervisory staff-in-charge of production and quality control
 - (a) Skilled labour employed.
 - (b) Unskilled labour employed.
 - (c) The maximum number of workers (skilled & unskilled) employed on any day during the 18 months preceding the date of application.
- 5) Installed production capacity of item(s) quoted for, with the existing plant and machinery.
 - (a) The installed monthly production capacity for----- and the type of-----
 - (b) What portion of the production capacity shall be reserved for this contract?
Indicate reserved capacity in terms of the number of items of Goods per month.
 - (c) average monthly production of ----- during the last 5 years on a single shift basis
 - (d) Existing order on hand for -----

A series of handwritten signatures and initials in blue ink are located at the bottom of the page, spanning across the footer area. The signatures appear to be from various individuals, possibly representing the bidder and the procuring organization.

- 6) Have you supplied the Goods tendered for or other identical items in the past? If so, details of supplies in the last five years may be furnished in Form 4.1.
- 7) Details relating to Section VIII: Qualification Criteria.....

   Sonu Sen Ray     

8) Documents Attached supporting the compliance to qualification criteria:

Sr	Document Attached, duly filled, signed, and copies self-attested
1	
2	
3	

.....

(Signature with date)

.....

(Name and designation)

Duly authorized to sign bid for and on behalf of

.....

[name & address of Bidder and seal of company]

DA: As above, if any

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[283]

Duly authorized to sign bid for and on behalf of

.....

.....

[name & address of Bidder and seal of company]

DA: Performance records/ contracts

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2 By   Soma Sen Ray     

Form 5: Terms And Conditions - Compliance

(Ref ITB-clause 9.2)

(To be submitted as part of Technical bid)

(on Company Letter-head)

Bidder's Name _____

[Address and Contact Details]

Bidder's Reference No. _____ Date.....

Tender Document No. CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

Note to Bidders: Fill up this Form regarding Terms and Conditions in the Tender Document, maintaining the same numbering and structure. Add additional details not covered elsewhere in your bid in this regard.

Sl. No.	Ref of Tender Document Section, Clause		Subject	Confirmation/ Deviation/ Exception/ reservation	Justification/ Reason
	Section	Clause/ sub- Clause			

We shall comply with, abide by, and accept without variation, deviation, or reservation all terms and conditions of the Tender Document, except those mentioned above. If mentioned elsewhere in our bid, contrary terms and conditions shall not be recognised and shall be null and void.

.....

(Signature with date)

.....

[286]

Procuring Organisation

(Name and designation)

Duly authorized to sign bid for and on behalf of

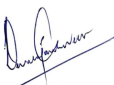
.....

.....

[name & address of Bidder and seal of company]

DA: If any, at the option of the Bidder.

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2 By   Soma Sen Ray     

Form 6: Check-List for Bidders

(Ref ITB-clause 9.2)

(To be submitted as part of Technical bid)

(on Company Letter-head)

Bidder's Name _____

[Address and Contact Details]

Bidder's Reference No. _____ Date.....

Tender Document No. CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

Note to Bidders: This check-list is merely to help the bidders to prepare their bids, it does not over-ride or modify the requirement of the tender. Bidders must do their own due diligence also.

Sr	Documents submitted, duly filled, signed	Yes/ No/ NA
1.	Form 1.- bid Form (to serve as covering letter and declarations applicable for both the Techno-commercial bid and Financial bid)	
2.	Form 1.1: Bidder Information along with Power of attorney and Registration Certificates etc.	
2.a	Self-attested copy of Registration certificates etc. of the firm	
2.b	Self-attested copy of PAN	
2.c	Self-attested copy of GSTIN registration(s)	
2.d	Self-attested copy of Power of Attorney etc. authorizing signatories on stamp paper to sign the bid	
3.	Form 1.2: Eligibility Declarations, along with supporting documents	
3.a	Self-attested copy of Registration certificate for bidders/ subcontractors from restricted neighbouring countries	
3.b	Self-attested copy of MSME registration	
3.c	Self-attested copy of Start-up registration/ status	
3.d	Self-attested copy of the certificate of Local Supplier Status for Make in India policy, from auditors/ cost accountant in case of Tenders above Rs 10 Crore	

4.	If applicable, Form 1.3: OEM's Authorization Form duly filled up (if applicable to Bidder concerned)	
4.a	Self-attested copy of Registration certificates etc. of the OEM/ principal	
4.b	Self-attested copy of Power of Attorney etc. authorizing signatories on stamp paper to sign Form 1.3 of OEM/ Principal	
5.	If applicable, Form 1.4: Declaration by Agents/ Associates of Foreign Principals/ OEMs	
5.a	Self-attested copy of Registration certificates etc., of the agent/ dealer.	
5.b	Self-attested copy of Power of Attorney etc. authorizing signatories on stamp paper to sign Form 1.4 of Agent Dealer	
6.	Form 2: 'Schedule of Requirements - Compliance	
7.	Form 3: Technical Specifications and Quality Assurance - Compliance	
7.a	Relevant documents like technical data, literature, drawings, and other documents, at the option of Bidder	
8.	Form 4: Qualification Criteria - Compliance	
8.a	Documents Attached supporting the compliance to qualification criteria	
9.	Form 4.1: Performance Statement	
9.a	Documents/ contracts supporting the performance statement	
10.	Form 5: Terms and Conditions - Compliance	
10.a	Documents if any at the option of Bidder, supporting deviation	
11.	Form 6: This Checklist	
12.	Form 7: Documents relating to Bid Security	
13.	If applicable, Form 8: Duly signed Integrity Pact, If stipulated in AITB	
14.	Price Schedule (BOQ) Excel Sheet downloaded from the Portal filled and uploaded)	
15.	Any other requirements, if stipulated in TIS/ AITB; or if considered relevant by the Bidder	

.....
(Signature with date)

Form 6: Check-List

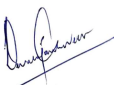
[289]

.....

(Name and designation)

Duly authorized to sign bid for and on behalf of.....

[name & address of Bidder and seal of company]

 By   Soma Sen Ray     

Form 7: Documents relating to Bid Security.

(Ref ITB-clause 9.2)

Note: To be submitted as part of Technical bid, along with supporting documents, if any.

Submit as Form 7 as part of Technical bid, a Bid Securing Declaration In lieu of bid security in the following format. Bidders exempted from submission of bid security are also required to submit this.

Bid Securing Declaration

(on Company Letter-head)

Bidder's Name _____

[Address and Contact Details]

Bidder's Reference No. _____ Date.....

To

The President of India, through

Head of Procurement

Procuring Organisation

[Complete address of the Procuring Entity]

Ref: Tender Document No. CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

Sir/ Madam

We, the undersigned, solemnly declare that:

We understand that according to the conditions of this Tender Document, the bid must be supported by a Bid Securing Declaration in lieu of Bid Security.

We unconditionally accept the conditions of this Bid Securing Declaration. We understand that we shall stand automatically suspended from being eligible for bidding in any tender in Procuring Organisation for 2 years from the date of opening of this bid if we breach our obligation(s) under the tender conditions if we:

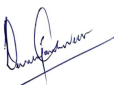
- 1) withdraw/ amend/ impair/ derogate, in any respect, from our bid, within the bid validity; or
- 2) being notified within the bid validity of the acceptance of our bid by the Procuring Entity:

Form 7: Documents Relating to Bid Security

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- (a) refused to or failed to produce the original documents for scrutiny or the required Performance Security within the stipulated time under the conditions of the Tender Document.
- (b) Fail or refuse to sign the contract.

   Soma Sen Ray     

We know that this bid-Securing Declaration shall expire if the contract is not awarded to us, upon:

- 1) receipt by us of your notification
 - (a) of cancellation of the entire tender process or rejection of all bids or
 - (b) of the name of the successful bidder or
- 2) forty-five days after the expiration of the bid validity or any extension to it.

(Signature with date)

.....

(Name and designation)

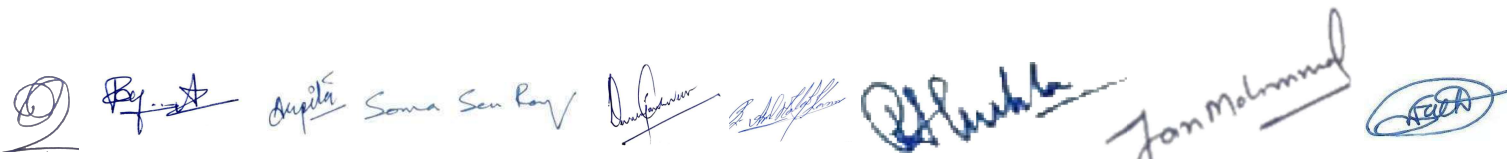
Duly authorized to sign bid for and on behalf of.....

[name & address of Bidder and seal of company]

Dated on day of [insert date of signing]

Place.....[insert place of signing]

DA:.....

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Form 8: Integrity Pact

(If stipulated in TIS, ref Claus 8.2.1 of ITB)

(To be signed on Plain Paper)

(To be submitted as part of Technical bid)

Integrity Pact for Tender Document No.CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

This Agreement (hereinafter called the Integrity Pact) is made on ____ day of the month of ____ 202__ at _____, India.

BETWEEN

Procuring Organisation, ----- through Head of the Procuring Organisation, for and on behalf of President of India (hereinafter called the “The Principal”, which expression shall mean and include unless the context otherwise requires, his successors in office and assigns) of the First Part

AND

M/ s. _____ (hereinafter called the “The Bidder/ Contractor” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

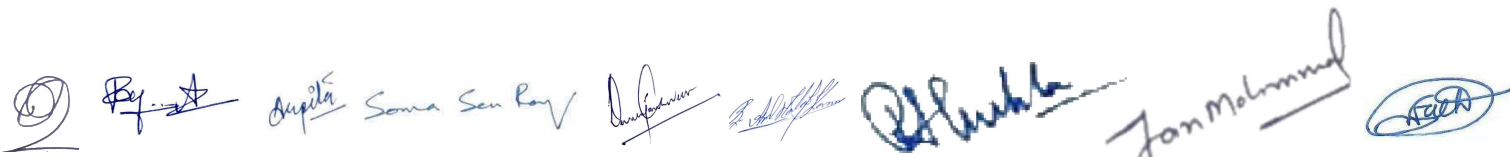
PREAMBLE

‘The Principal’ intends to award, under laid down organizational procedures, contract/ s for _____, ‘The Principal’ values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/ transparency in its relations with its Bidder(s) and/ or Contractor(s).

In order to achieve these goals, the Principal shall appoint Independent External Monitors (IEMs) who shall monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 - Commitments of the ‘The Principal’

- 1) ‘The Principal’ commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
 - (a) No employee of the Principal, personally or through family members, shall in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.



- (b) The Principal shall, during the tender process, treat all Bidder(s) with equity and reason. The Principal shall in particular, before and during the tender process, provide to all Bidder(s) the same information and shall not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - (c) The Principal shall exclude from the process all known prejudiced persons.
- 2) If the Principal obtains information on the conduct of any of its employees, which is a criminal offence under the IPC/ PC Act, or if there be a substantive suspicion in this regard, the Principal shall inform the Chief Vigilance Officer and, in addition, can initiate disciplinary actions.

Section 2 - Commitments of the 'Bidder/ Contractor'

- 1) The 'Bidder/ Contractor' commit themselves to take all measures necessary to prevent corruption. The 'Bidder/ Contractor' commit themselves to observe the following principles during participation in the tender process and during the contract execution.
- a. The 'Bidder/ Contractor' shall not, directly or through any other person or firm, offer, promise, or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 - b. The 'Bidder/ Contractor' shall not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the tender process.
 - c. The 'Bidder/ Contractor' shall not commit any offence under the relevant IPC/ PC Act; further, the 'Bidder/ Contractor' shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals, and business details, including information contained or transmitted electronically.
 - d. The 'Bidder/ Contractor' of foreign origin shall disclose the name and address of the Agents/ representatives in India if any. Similarly, the Bidder/ Contractors of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign

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Suppliers” shall be disclosed by the Bidder/ Contractor. Further, as mentioned in the Guidelines, all the payments made to the Indian agent/ representative have to be in Indian Rupees only. Copy of the “Guidelines on Indian Agents of Foreign Suppliers” is placed in Appendix to this agreement.

- e. The ‘Bidder/ Contractor’ shall, when presenting their bid, disclose any and all payments made, is committed to, or intends to make to agents, brokers, or any other intermediaries in connection with the award of the contract.
 - f. Bidder/ Contractor who have signed the Integrity Pact shall not approach the Courts while representing the matter to IEMs and shall wait for their decision in the matter.
- 2) The ‘Bidder/ Contractor’ shall not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 - Disqualification from tender process and exclusion from future contracts

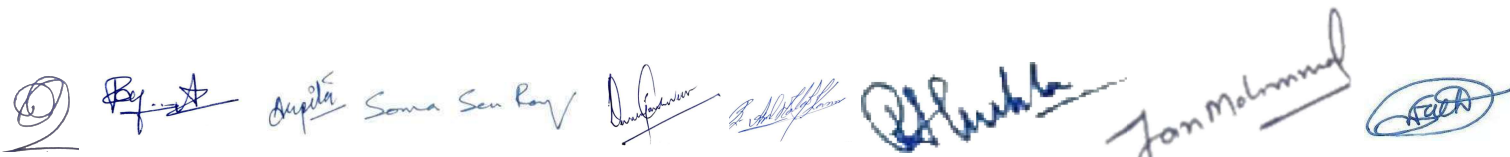
If the ‘Bidder/ Contractor’, before award or during execution, has committed a transgression through a violation of Section 2, above or in any other form such as to put their reliability or credibility in question, the Principal is entitled to disqualify the ‘Bidder/ Contractor’ from the tender process or take action as per the procedure mentioned in the “Guidelines on Banning of business dealings”.

Section 4 - Compensation for Damages

- 1) If the Principal has disqualified the ‘Bidder/ Contractor’ from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from ‘Bidder/ Contractor’ the damages equivalent to Earnest Money Deposit/ Bid Security.
- 2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the contractor liquidated damages of the contract value or the amount equivalent to Performance Bank Guarantee.

Section 5 - Previous transgression

- 1) Bidder declares that no previous transgressions occurred in the last three years with any other Company in any country conforming to the anti-corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 2) If Bidder makes an incorrect statement on this subject, he can be disqualified from the tender process, or action can be taken as per the procedure mentioned in “Guidelines on Banning of business dealings”.



Section 6 - Equal treatment of all Bidders/ Contractors/ Subcontractors

- 1) In the case of Sub-contracting, the Principal Contractor shall take responsibility for the adoption of the Integrity Pact by the Sub-contractor.
- 2) The Principal shall enter into agreements with identical conditions as this one with all Bidders and Contractors.
- 3) The Principal shall disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7 - Criminal charges against violating Bidder(s)/ Contractor(s)/ Subcontractor(s)

If the Principal obtains knowledge of the conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal shall inform the same to the Chief Vigilance Officer.

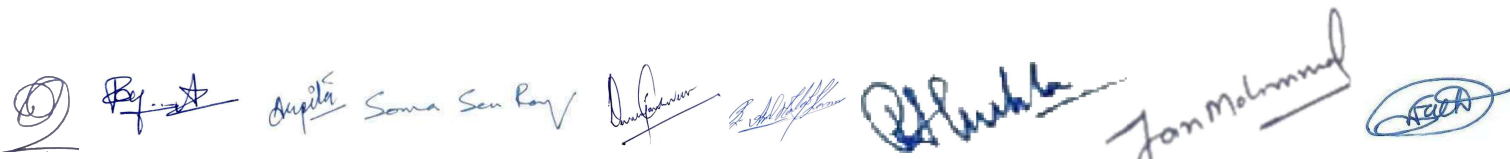
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Section 8 - Independent External Monitor

- 1) The Principal appoints a competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission. The task of the Monitor is to review independently and objectively whether and to what extent the parties comply with the obligations under this agreement.
- 2) The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. The Monitor would have access to all Contract documents whenever required. It shall be obligatory for him/ her to treat the information and documents of the Bidders/ Contractors as confidential. He/ she reports to the Head of the Procuring Organisation.
- 3) The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal, including that provided by the contractor. The Contractor shall also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to Sub-contractors.
- 4) The Monitor is under contractual obligation to treat the information and documents of the Bidder/ Contractor(s)/ Sub-contractor(s) with confidentiality. The Monitor has also signed declarations on 'Non-Disclosure of Confidential Information and of 'Absence of Conflict of Interest'. In case of any conflict of interest arising at a later date, the IEM shall inform the Head of the Procuring Organisation and recuse himself/ herself from that case.
- 5) The Principal shall 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 Principal and the contractor. The parties offer the Monitor the option to participate in such meetings.
- 6) As soon as the Monitor notices, or believes to have noticed, a violation of this agreement, he shall so inform the Management of the Principal and request the Management to discontinue or take corrective action or to take other relevant action. The monitor can, in this regard, submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action, or tolerate action.
- 7) The Monitor shall submit a written report to the Head of the Procuring Organisation within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
- 8) If the Monitor has reported to the Head of the Procuring Organisation, a substantiated suspicion of an offence under relevant IPC/ PC Act, and Head of the

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Procuring Organisation

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Procuring Organisation has not, within the reasonable time, taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.

- 9) The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the contractor 12 months after the last payment under the contract and for all other Bidders 6 months after the contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.

If any claim is made/ lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above unless it is discharged/ determined by the Head of the Procuring Organisation.

Section 10 - Other provisions

- 1) This agreement is subject to Indian Law. The place of performance and jurisdiction is the Registered Office of the Principal, i.e., New Delhi.
- 2) Changes and supplements, as well as termination notices, need to be made in writing. Side agreements have not been made.
- 3) If the contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties shall strive to come to an agreement with their original intentions.
- 5) Issues like Warranty/ Guarantee etc. shall be outside the purview of IEMs.
- 6) In the event of any contradiction between the Integrity Pact and its Appendix, the Clause in the Integrity Pact shall prevail.
- 7) For and on behalf of the Principal

(Name of the Officer and Designation)

(Office Seal)

For and on behalf of 'Bidder/ Contractor'

Form 8: Integrity Pact

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(Name of the Officer and Designation)

(Office Seal)

For and on behalf of the Principal

Place

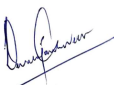
Date

Witness 1:

(Name & Address)

Witness 2:

(Name & Address)

2 By   Soma Sen Ray       

Appendix to Integrity Pact

Guidelines for Indian Agents of Foreign Suppliers

1.0 There shall be compulsory registration of agents for all Global (Open) Tender and Limited Tender. An agent who is not registered with 'The Principal' shall apply for registration in the registration form with the appropriate unit.

1.1 Registered agents shall file an authenticated Photostat copy duly attested by a Notary Public/ Original certificate of the Principal confirming the agency agreement. It should cover - the precise relationship, services to be rendered, mutual interests in business - generally and/ or specifically for the tender. Any commission/ remuneration/ salary/ retainership, which the agent or associate receives in India or abroad from the Principal/ OEM, whether should be brought on record in the Agreement and be made explicit.

1.2 Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary, or a retainer, a written declaration to this effect should be submitted by the party (i.e., Principal) before finalizing the order.

2.0 Disclosure of particulars of agents/ representatives in India, if any.

2.1 Bidders of Foreign nationality shall furnish the following details in their offers:

2.1.1 The 'Bidder/ Contractor' of foreign origin shall disclose the name and address of the agents/ representatives in India if any and the extent of authorization and authority are given to commit the Principals. In case the agent/ representative be a foreign Company, it shall be confirmed whether it is an existing Company and details of the same shall be furnished.

2.1.2 The amount of commission/ remuneration included in the quoted price(s) for such agents/ representatives in India.

2.1.3 Confirmation of Bidder that the commission/ remuneration, if any, payable to his agents/ representatives in India, may be paid by 'The Principal' in Indian Rupees only.

2.2 Bidders of Indian Nationality shall furnish the following details in their offers:

2.2.1 The 'Bidder/ Contractor' of Indian Nationality shall furnish the name and address of the foreign principals, if any, indicating their nationality as well as their status, i.e., whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal authorizing the agent specifically to make an offer in India in response to tender either directly or through the agents/ representatives.

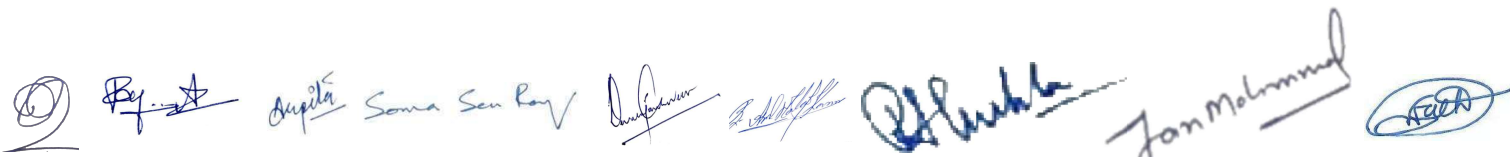
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2.2.2 The amount of commission/ remuneration included in the price (s) quoted by Bidder for himself.

2.2.3 Confirmation of the foreign principals of Bidder that the commission/ remuneration, if any, reserved for Bidder in the quoted price(s), may be paid by 'The Principal' in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Goods and Spares in case of operation items.

2.3 In either case, in the event of contract, materializing, the terms of payment shall provide for payment of the commission/ remuneration, if any, payable to the agents/ representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.

2.4 Failure to furnish correct and detailed information as called for in clauses above shall render the concerned bid liable to rejection or, in the event of a contract materializing, the same liable to termination by 'The Principal'. Besides this, there would be a penalty of banning business dealings with 'The Principal' or damage or payment of a named sum.

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FORMATS

2 By   Soma Sen Ray     

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2 By   Soma Sen Ray     

Format 1: Contract Form

(Ref Clause 13.2.5 of ITB)

The President of India, through

Head of Procurement

Procuring Organisation

[Complete address of the Procuring Entity]

Contract No..... dated.....

To

Contractor [Write Name]

Unique GeM Supplier ID:.....

[Complete address of the contractor]

Subject:

Ref: 1. This office' Letter of Award (LoA) No..... dated

2. This office Tender Document No. CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems, dated..... and subsequent Amendment No....., dated..... (If any). (Hereinafter referred to as 'the Tender Document')

3. Your Tender No..... dated..... and subsequent communication(s)/ Revised Offer No..... dated (If any), exchanged between you and this office in connection with this tender. (Hereinafter referred to as 'Your Offer')

Dear Sir/ Madam,

Your bid referred above, read with subsequent letters mentioned above, for the Goods stipulated in the Schedules annexed herewith, have been accepted. Terms and conditions in this Contract and the documents listed in the clause below shall apply.

2. Terms and conditions in the documents mentioned under Reference no: 1, 2 and 3 above (including General and Special Conditions of Contract) shall also be part of this contract.

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Note: The words, expressions, definitions, and abbreviations used in this contract shall have the same meanings as are respectively assigned to them in the General Condition of Contract of 'the Tender Document'.

(Signature, name and address of [Procuring Entity]'s authorized official)

For and on behalf of.....

Received and accepted this contract

(Signature, name, and address of the contractor's executive duly authorized to sign on behalf of the contractor)

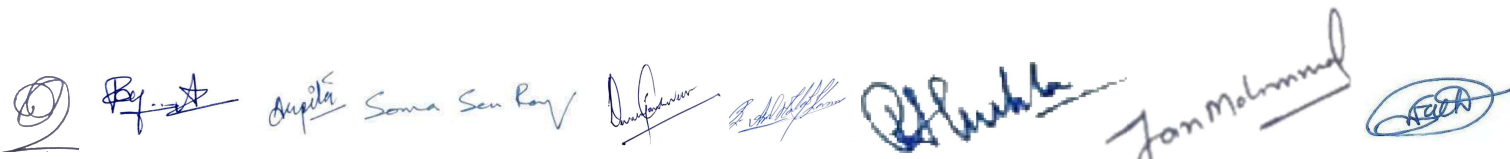
For and on behalf of

(Name and address of the contractor)

.....

(Seal of the contractor)

Place:_____ Date:

A series of handwritten signatures and stamps in blue ink. From left to right: a circular stamp, a signature, a signature with a star, a signature, the text 'Soma Sen Roy', a signature, a signature, a signature, the text 'Zan Mohammad', and a circular stamp.

Format 1.1: Bank Guarantee Format for Performance Security

(Ref Clause 9.4 of ITB and clause 5.8 of GCC)

To

The President of India, through

Head of Procurement

Procuring Organisation

[Complete address of the Procuring Entity]

Whereas..... (name and address of the contractor)
(hereinafter called "the contractor") has undertaken, in pursuance of contract no
date..... to supply (description of goods and Works/ Services) (hereinafter
called "the contract").

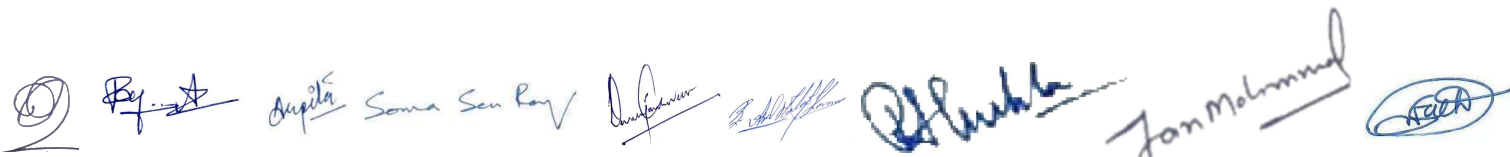
And Whereas you have stipulated it in the said contract that the contractor shall furnish you
with a bank guarantee by a Commercial bank for the sum specified therein as security for
compliance with its obligations as per the contract;

And Whereas we have agreed to give the contractor such a bank guarantee.

Now Therefore we hereby affirm that we are guarantors and responsible to you, on behalf of
the contractor, up to a total of(amount of the guarantee
in words and figures), and we undertake to pay you, upon your first written demand
declaring the contractor to be in default under the contract and without cavil or argument,
any sum or sums within the limits of (amount of guarantee) as aforesaid, without your
needing to prove or to show grounds or reasons for your demand or the sum specified
therein.

We hereby waive the necessity of your demanding the said debt from the contractor before
presenting us with demand.

We further agree that no change or addition to or other modification of the terms of the
contract to be performed thereunder or of any of the contract documents which may be
made between you and the contractor shall in any way release us from any liability under
this guarantee, and we hereby waive notice of any such change, addition, or modification.

A series of handwritten signatures and initials in blue ink are located at the bottom of the page. From left to right, they include a circular stamp, a signature starting with 'By', a signature that appears to be 'Anita', a signature 'Soma Sen Ray', a signature 'D. S. Sen', a signature 'B. S. Sen', a signature 'R. S. Sen', a signature 'R. S. Sen', a signature 'R. S. Sen', and a signature 'R. S. Sen'.

This guarantee shall be valid until the day of 20.....

Our.....branch at.....*(Name & Address of the
.....*(branch) is liable to pay the guaranteed amount depending on the filing of a
claim and any part thereof under this Bank Guarantee only and only if you serve upon us at
our* branch a written claim or demand and received by us at our*
branch on or before Dt..... otherwise, the bank shall be discharged of all liabilities under
this guarantee after that.

(Signature of the authorized officer of the Bank)

.....

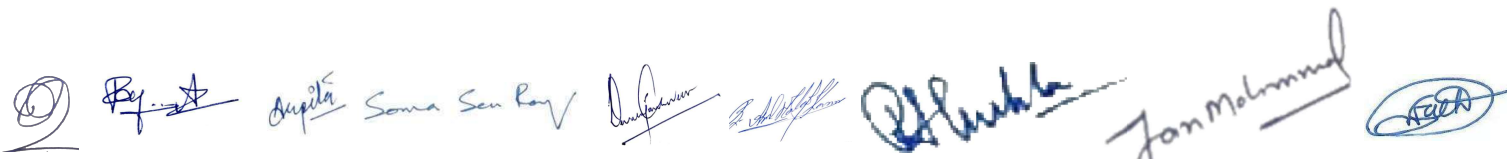
.....

Name and designation of the officer

.....

Seal, name & address of the Bank and address of Branch

*Preferably at the headquarters of the authority competent to sanction the expenditure for
the procurement of goods or at the concerned district headquarters or the state
headquarters.

A series of handwritten signatures and stamps in blue ink at the bottom of the page. From left to right, there is a circular stamp, a signature, a signature with a star, a signature, the text 'Soma Sen Ray', a signature, a signature, a signature, the text 'Zan Mohammad', and a circular stamp.

Format 1.1.1: BANK GUARANTEE FORMAT FOR ADVANCE PAYMENT

To

The President of India, through

Head of Procurement

India Meteorological Department

Ministry of Earth Sciences, Govt. Of India, New Delhi

WHEREAS on or about the.....day of.....

..... M/s..... a company registered under the Companies act 1931/1956 and having its registered office at (hereinafter referred to as 'The Contractor') entered into an agreement bearing No (hereinafter referred to as 'The

Contract') with the President of India acting through the Head of Procurement

India Meteorological Department, Ministry of Earth Sciences, Govt. Of India, New Delhi (hereinafter referred to as 'The Government') for (hereinafter referred to as 'The Equipment').

1. AND WHEREAS under the terms and conditions of the contract an amount of INR(Rupees Only) representing Percent advance payment out of a contract value of INR (Rupees. 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 INR. (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 having agreed to pay to the Contractor an advance payment of INR.....

..... (Rupees only) do hereby agree and undertake

to indemnify the Government and keep the Government indemnified to the extent of a sum not exceeding the said sum of. INR (Rupees only) against any damage or loss that may be suffered

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by the Government by reason of non-fulfilment of any of the terms and conditions of the contract by the Contractor.

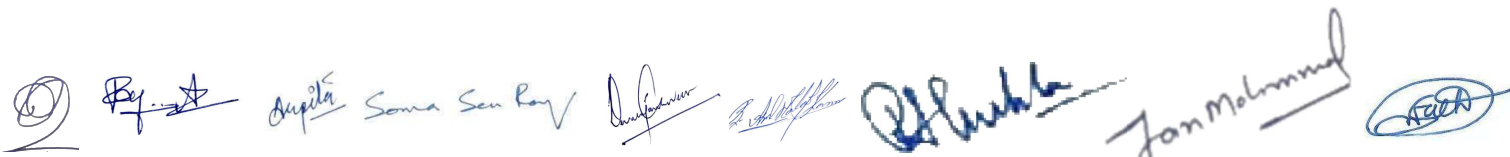
4. We,..... (Bank) do hereby undertake to pay the

amount due and payable under this guarantee without any demur merely on a demand from the President of India acting through the Secretary, Ministry of Earth 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 the Government by reason of breach by the said Contractor(s) of any of the terms and conditions contained in the said agreement or by reason of the Contractor(s) 's failure to perform the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee, shall be restricted to an amount not exceeding INR (Rupees only).

5. We, ... (Bank) undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the contractor(s) shall have no claim against.

6. AND We, ... (Bank) hereby further agree that the decision of the said the Secretary, Ministry of Earth Sciences, Govt. Of India, New Delhi as to whether the Contractor has committed breach of any such terms and conditions of the contract or not and as to amount of damages or loss assessed by the said Regional Director, Purchase and Stores as damage or loss suffered by the government on account of such breach would be final and binding on us.

7. We.....(Bank) further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the



Government against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Contractor(s) or for any forbearance, act or commission on the part of the Government or any indulgence by the Government to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have the effect of relieving us.

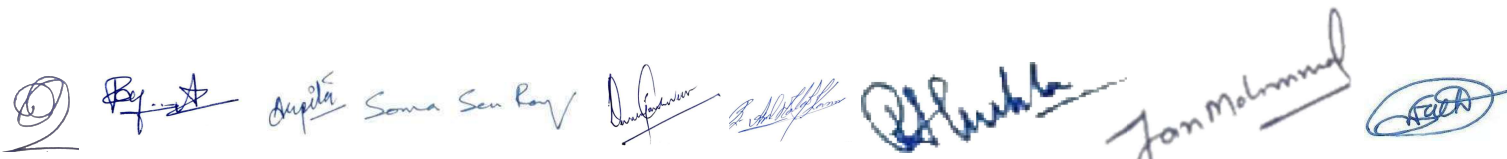
8. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

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

For

(Indicate the name of bank)

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Format 1.2: No Claim Certificate

(Refer Clause 12.3.1 of GCC)

(On company Letter-head)

Contractor's Name _____

[Address and Contact Details]

Contractor's Reference No. _____ Date.....

To

The President of India, through

Head of Procurement

Procuring Organisation

[Complete address of the Procuring Entity]

No Claim Certificate

Sub: Contract Agreement no. ----- dated -----for the supply of -----

We have received the sum of. INR (Rupees
_____ only) as final settlement due to us for the
supply of _____
under the abovementioned contract agreement.

We have received all the amounts payable to us with this payment and have no
outstanding dispute of any description whatsoever regarding the amounts worked out as
payable to us and received by us.

We hereby unconditionally and without any reservation whatsoever, certify that we shall
have no further claim whatsoever, of any description, on any account, against the
Procuring Entity, under contract above. We shall continue to be bound by the terms and
conditions of the contract agreement regarding its performance.

Yours faithfully,

Signatures of contractor or

officer authorised to sign the contract documents.

on behalf of the contractor

(company Seal)

Date: _____

Place: _____



Format 1.3: Certification by Prospective Arbitrators

(Ref Clause 11.5.4 of GCC)

To

Head of the Procuring Organisation

Procuring Organisation

[Complete address of the Procuring Entity]

Certification by Prospective Arbitrators

1. Name: _____
2. Contact Details: _____
3. I hereby certify that I am retired officer of *[Name of Organisation]* retired as _____ in _____ grade.
4. I have no past or present relationship concerning the subject matter in dispute, whether financial, business, professional or another kind.

Or

I have past or present relationships concerning the subject matter in dispute, whether financial, business, professional or another kind. The list of such interests is as under:-----

5. I have no past or present relationship/ interest financial, business, professional or other, in any of the parties, which may raise justifiable doubts about my independence or impartiality in terms of the Arbitration and Conciliation Act 1996 amended from time to time.

Or

I have past or present relationship/ interest financial, business, professional or other, in any of the parties, which may raise justifiable doubts about my independence or impartiality in terms of the Arbitration and Conciliation Act 1996 as amended from to time. The details of such relationship or interest are as under:-----

6. There are no concurrent circumstances that are likely to affect my ability to devote sufficient time to the arbitration and finish the entire arbitration within twelve months.

Or

Some circumstances are likely to affect my ability to devote sufficient time to the arbitration and finish the entire arbitration within twelve months. The list of such circumstances is as under:-----

(Signature)

(Name & Designation)

2 By Asmita Soma Sen Ray Asmita Asmita Asmita Asmita Asmita Asmita Asmita

Format 1.4:

MODEL BANK GUARANTEE FORMAT FOR FURNISHING EMD

(Format only)

Whereas
(hereinafter called the "tenderer")
has submitted their offer dated
for the supply of
(hereinafter called the "tender")
Against IMD's tender enquiry No
KNOW ALL MEN by these presents that WE
of.....".....having our registered office at
.....
are bound into (hereinafter called the "Purchaser")
in the sum of
for which payment will and truly to be made to the said Purchaser, the
Bank binds itself, its successors and assigns by these presents. Sealed
with the Common Seal of the said Bank this day 20 ..
THE CONDITIONS OF THIS OBLIGATION ARE:

- (1) If the tenderer withdraws or amends, 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 IMD during the period of its validity:-
 - If the tenderer fails to furnish the Performance Security for the due performance of the contract.
 - Fails or refuses to accept/execute the contract.

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

This guarantee will remain in force up to and including 180 days or after the finalisation of tender any demand in respect thereof should reach the Bank not later than the above date.

Bank Guarantee issued with the tender enquiry reference No. CPU/..... Dated

(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

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Format 2: Authorization for Attending Pre-bid Conference.

(Refer ITB-Clause 8)

(on Company Official Letter Head)

Bidder's Name _____

[Address and Contact Details]

Bidder's Reference No. _____ Date.....

To

The President of India, through

Head of Procurement

Procuring Organisation

[Complete address of the Procuring Entity]

Ref: Tender Document No. CPU/53/0x25/155x; Tender Title: Procurement of 20 C-Band and 25 X-Band Polarimetric Doppler Weather Radar Systems

Subject: Authorization for attending Pre-bid Conference on _____ (date).

Following persons are hereby authorized to attend the Pre-bid Conference for the tender mentioned above on behalf of _____
(Bidder) in order of preference given below.

Sr.	Name	Government Photo ID Type/ Number
I.		
II.		
Alternate Representative		

Note:

1. Maximum of two representatives (carrying valid Government photo IDs) shall be permitted to attend the Pre-bid opening. An alternate representative shall be permitted when regular representatives are not able to attend.
2. Permission to enter the hall where the pre-bid conference is conducted may be refused if authorization as prescribed above is not submitted.

Signatures of bidder

or

Officer authorized to sign the bid.

Documents on behalf of the bidder

[name & address of Bidder and seal of company]

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2 By   Soma Sen Ray     