



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

NOTICE INVITING TENDER (NIT)

Tender Enquiry No. CPU/53/0620/1532 Dated: 10.07.2020

1. Director General of Meteorology (DGM), India Meteorological Department (IMD), Ministry of Earth Sciences (MoES), Government of India, on behalf of President of India invites, ONLINE tenders in two bid system i.e. (i) Technical bid & (ii) Price bid (Separately) from eligible and qualified Indian Bidders for procurement of following Goods/Articles/Services from Indian Suppliers Only.

2. Name of Goods/Articles/Services : GPS Radiosondes with compatible Ground Systems

3. Specification and Quantity : As per "RFP" (Quantity = 8,000 Nos.)

4. Tender schedule is as follows:

1.	PRE BID Conference	N.A. For any queries, e-mail to dataual@gmail.com (Up to 30.07.2020) or contact Smt. Ranju Madan, Scientist F at Mobile No. 9999192899.
2.	Closing date and time for submission of tender	22.08.2020 / 1700 Hrs.
3.	Tender Opening date & time (Technical Bid)	24.08.2018 / 1200 Hrs.
4.	Place of Tender Opening	Central Purchase Unit, O/o DGM, IMD, Lodi Road ,New Delhi.

5. Earnest Money Deposit (EMD): **Rs.8,00,000/-** (Rupees Eight Lakh only) / The EMD should be either in the form of Fixed Deposit Receipt (FDR) or Bank Guarantee (B.G.) issued by any commercial bank within India.

6. EMD documents should be issued in the favour of "DDO, O/o Director General of Meteorology, IMD, New Delhi" and payable at New Delhi.

7. Bidders may download the **Tender Enquiry Document** from the web site www.imd.gov.in & www.eprocurement.gov.in/cpp and read the tender documents carefully before uploading the tender on CPP Portal.

8. (a) SSI, Micro and Small Enterprises registered as manufacturers for stores and services specified in this tender with any government bodies specified by Ministry of Micro, Small & Medium Enterprises (MoMSME) are exempted from submitting the Earnest Money Deposit (EMD).

(b) Firms other than SSI, registered as manufacturers for stores and services with NSIC, are also exempted from submitting the EMD.

(c) The exemption and relaxation in EMD are subject to validity of their registration on the date of opening of tender.

9. Bidders shall ensure that their tenders are complete in all respects before uploading the same on CPP Portal. CPU will not be held responsible for any delay or corruption in the uploaded bids.

10. In the event of the tender opening date being declared as holiday for the purchase organization, the tender will be opened on the next working day. The venue and time of tender opening will remain the same.

11. Purchaser : The President of India
Through Director General of Meteorology,
India Meteorological Department,
Lodi Road, New Delhi-110003

12. Consignee: DGM (UAID), UAL,
India Meteorological Department,
Lodi Road, New Delhi-110003

13. Inspecting Authority: Director General of Meteorology,
India Meteorological Department,
Lodi Road, New Delhi-110003.

14. Inspection officer : Authorized Representative of Inspecting Authority

Director, Central Purchase Unit (CPU)
O/o Director General of Meteorology,
India Meteorological Department,
Lodi Road, New Delhi-110003.
Telefax No: 011-24698148



भारत मौसम विज्ञान विभाग
लोदी रोड, नई दिल्ली -110003

निविदा आमंत्रित करने की सूचना (एन आई टी)

निविदा जाँच सं. CPU/53/0620/1532 दिनांक : 10.07.2020

1. मौसम विज्ञान के महानिदेशक (मौविमनि) भारत मौसम विज्ञान विभाग (भा.मौ.वि.वि.) पृथ्वी विज्ञान मंत्रालय, भारत सरकार, भारत के राष्ट्रपति की ओर से नीचे लिखे सामान / वस्तुएँ / सेवाओं की आपूर्ति, संस्थापन और आरंभ के लिए केवल भारतीय पात्र और अर्हक निविदाकारों से दो बिड प्रणाली अर्थात (एक) तकनीकी बिड और (दो) दर बिड में ओनलाइन टेंडर आमंत्रित करते हैं .
2. सामान/ वस्तुएँ/ सेवाओं का नाम: GPS Radiosondes with compatible Ground Systems
3. विनिर्देशन और मात्रा : विनिर्देशन आर एफ पी के अनुसार, (मात्रा- 8,000)
4. निविदा अनुसूची इस प्रकार है:

1	प्री बिड कांफ्रेंस	लागू नहीं All queries may be sent to dataual@gmail.com (Up to 30.07.2020).
2.	निविदा जमा करने की अंतिम तिथि व समय	दिनांक 22.08.2020 / 1700 बजे
3.	निविदा खोलने की तिथि व समय (तकनीकी बिड)	दिनांक 24.08.2018 / 1200 बजे
4.	निविदा खोलने का स्थान	केंद्रीय क्रय एकक, मौविमनि का कार्यालय भा.मौ.वि.वि , लोदी रोड, नई दिल्ली

5. धरोहर राशि (ई एम डी): **₹ 8,00,000/-** (रूपये आठ लाख केवल) | ईएमडी केवल एफ डी आर (Fixed Deposit Receipt) या बैंक गारंटी (Bank Guarantee) के रूप में होनी चाहिये ।

6. ईएमडी के कागज़ “DDO, O/o Director General of Meteorology, IMD, New Delhi” के नाम पर बनाये जायें जिसका भुगतान New Delhi में हो ।
7. निविदाकर्ता www.imd.gov.in और www.eprocure.gov.in वेबसाइट से निविदा जांच कागजात डाउनलोड कर सकते हैं और डाउनलोड किए गए कागजात ध्यान से पढ़कर अपनी निविदा सी पी पी पोर्टल पर डालें ।
8. (ए) लघु, लघु और मध्यम उद्यम मंत्रालय (एमओएमएसएमई) द्वारा निर्दिष्ट किसी भी सरकारी निकाय के साथ इस निविदा में विनिर्दिष्ट भंडार और सेवाओं के निर्माताओं के रूप में पंजीकृत एसएसआई, माइक्रो और लघु उद्यमों को बयाना जमा राशि (ईएमडी) जमा करने से छूट दी गई है।

(बी) एनएसआईसी के साथ भंडार और सेवाओं के निर्माताओं के रूप में पंजीकृत एसएसआई के अलावा अन्य फर्मों को भी ईएमडी जमा करने से छूट दी गई है।

(सी) ईएमडी में छूट निविदा खोलने की तिथि पर उनके पंजीकरण की वैधता के अधीन हैं।
9. निविदाकर्ताओं को यह सुनिश्चित करना होगा कि उनकी सभी निविदाएँ सभी तरह से पूर्ण हैं किसी भी प्रकार के विलम्ब अथवा नुकसान के लिए क्रय संगठन जिम्मेवार नहीं होगा ।
10. यदि निविदा खोलने की तारीख के दिन क्रय संगठन का अवकाश घोषित होता है तो निविदा अगले कार्य दिवस को खोली जाएगी । निविदा खोलने का स्थान और तारीख वही रहेंगे ।
11. क्रयकर्ता: भारत के महामहिम राष्ट्रपति
भा.मौ.वि.वि.के माध्यम से
भारत मौसम विज्ञान विभाग,
लोदी रोड, नई दिल्ली-110003
12. परेषिति: मौसम विज्ञान के महानिदेशक (यू ए आई डी)
भारत मौसम विज्ञान विभाग
लोदी रोड, नई दिल्ली-110003
13. जाँच प्राधिकारी: मौसम विज्ञान के उपमहानिदेशक (यू आई)
भारत मौसम विज्ञान विभाग
लोदी रोड, नई दिल्ली-110003
14. जाँच अधिकारी: जाँच प्राधिकारी का प्राधिकृत प्रतिनिधि
निदेशक, केंद्रीय क्रय एकक(कें.क्र.ए) ,
मौसम विज्ञान के महानिदेशक का कार्यालय,
लोदी रोड, नई दिल्ली- 110003
टेलीफैक्स सं. : 011-24698148



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

E-Tender Enquiry No.CPU/53/0620/1532 Dated : 10.07.2020

**SECTION – I
GENERAL INSTRUCTIONS OF TENDER (GIT)**

1. Introduction

The Purchaser has issued this Tender Enquiry (TE) document for purchase of “Radiosondes along with compatible ground receiving systems” from prospective Indian bidders only as per Govt rule , as per the details mentioned in Section “RFP for Radiosondes along with compatible ground receiving systems”, which also indicates *inter alia*, the required stores, delivery schedule, terms and place of delivery etc.

This section - “General Instructions of Tender (GIT)” provides the relevant information as well as instructions to assist the prospective Indian bidders in preparation and submission of their online tenders.

2. Language of Tender

The tender submitted by the bidder as well as all the subsequent correspondence and the documents related to the tender (to be exchanged between the bidder and the purchaser), shall be written in English language only.

3. Eligible Goods

All goods to be supplied shall have their origin either in India or in any other country with which India has not banned the trade relations. The term “origin” used in this clause means the place where the goods are mined, grown, produced or manufactured or from where the related goods are arranged and supplied.

4. Tendering Expense

The bidder shall bear all the costs and expenditure incurred and/or to be incurred by it in the preparation, mailing and submission of its online tender including arrangement for demonstration of Products/Services or Field trials that may be deemed necessary by the Purchaser.

5. Regular visit of website:

Prospective bidders are advised to see CPP portal eprocure.gov.in/eprocure on regular basis for any change in NIT schedule, amendment / corrigendum in Tender Document including technical requirements, etc.

6. Amendments to Tender Enquiry Documents

At any time, prior to the deadline for submission of the tenders, the purchaser may, for any reason deemed fit by it, modify the Tender Enquiry Documents by issuing suitable amendment(s) to it. The amendment will be notified on CPP Portal and IMD web site. In

order to provide reasonable time to the prospective bidders to take necessary action in preparing their tenders as per the amendment, the purchaser may, at its discretion extend the deadline for the submission of tenders and other allied time frames, which are linked with that deadline.

7. Documents Comprising the Tender

Tender Enquiry Document seeks quotation in **Two Bid System**. (Technical Bid and Price Bid separate) are acceptable from Indian suppliers in INR only as per the following details :

(1) TECHNICAL BID

- (a) Checklist Section (Annexure-I) properly filled and signed
- (b) Earnest Money Deposit (EMD) Documents or MSME/NSIC Exemption Certificate
- (c) Technical Proposal
- (d) Compliance Statement / Table
- (e) List of deliverables (Un-priced) with make & model etc.
(This should be exactly the same as attached in the price bid)
- (f) Documentary evidence for eligibility
- (g) Tender Acceptance Letter (Annexure-II) duly signed. (Bidder has to accept all the terms & conditions of the Tender Enquiry Document).
- (h) The Indian bidder, who quotes for goods manufactured by some other manufacturer, shall furnish Manufacturer's Authorisation Form. (Annexure-III)
- (i) Authorization letter from principal authorizing manufacturer , Indian representative has to submit the tender document on behalf of foreign principal in INR only. Above documents must be enclosed with technical bids, otherwise bids may be either ignored or not considered for technical evaluation

(2) PRICE BID

- (a) All the pages of the price bid should be numbered, indexed and duly signed by the authorized signatory
- (b) Prices should be quoted as per Price Schedule Format (Annexure-VI). The domestic Bidder shall indicate on the Price Schedule specifying all components of prices shown therein including the unit prices and total tender prices of the goods, services, packing, inland transportation/freight/insurance to the sites and GST etc. against the requirement
- (c) In case any charges are not mentioned in the price bid, it will be treated as "All the charges are free of cost for that item"
- (d) Vendors shall quote prices on F.O.R destination (sites of consignee) basis and Payment to the supplier will be made in Indian Rupees only.
- (e) The bidder supplying indigenous goods or already imported goods shall quote only in Indian Rupees
- (f) Unless otherwise specified, prices quoted by the bidder shall remain firm and fixed during the currency of the contract and not subject to variation on any account except statutory levies, taxes and duties etc., if any, chargeable on the goods are payable
- (g) If there is a discrepancy between the amount expressed in words and figures, the amount expressed in words shall prevail and will be treated as final
- (h) The Supplier shall bear all the Income-tax liability as per rates prevailing at the time of undertaking the job in accordance with the Income-Tax Act in force in India
- (i) Price bid shall prima-facia be rejected in case of any deviation from the technical bid of the bidder and if there is any fact concealed or hidden in price bid/technical bid.

The Bidders shall have to agree/accept all the terms and conditions of the tender including payment etc. Acceptance shall be unconditional and bidders shall have no claim and right in future on their terms if any.

8. Preparation of Tenders

A bidder shall first complete all the documents of its tender, duly signed and stamped. Then the bidder shall scan all the documents and save them in a single file in PDF format.

Note : PRE-BID CONFERENCE: Pre-bid conference shall not be held.

Bidders may send all their queries to this office by E-mail on dataual@gmail.com / cpu.imd@imd.gov.in for their technical/financial queries. All the queries must be submitted on or before the Seek Clarification End Date published on CPP Portal.

9. Submission of Tenders

The bidders shall upload the soft copy of their tenders (In PDF Format) on CPP Portal on or before the Closing date and time for submission of tender (Para 4.2, Page-1 of NIT document). The Evaluation of the bids will be done after downloading the bids by this office from the website : E-procurement.gov.in.

All the bidders are required to submit the Hard Copies of the EMD Documents / EMD Exemption (MSME/NSIC) Certificates in this office positively on or before the Tender Opening date & time (Para 4.3, Page-1 of NIT document).

10. Alteration of Tender

The bidder, after submitting its tender, is permitted to alter / modify and upload its tender any number of times before the last date/time for submission of tender. The earlier tenders will get cancelled automatically and the latest uploaded tender will remain effective.

11. Opening of Tenders

The purchaser will open the tenders at the specified date, time and place as indicated in the NIT document. In case the specified date of tender opening falls on / is subsequently declared a holiday or closed day for the purchaser, the tenders will be opened at the appointed time and place on the next working day.

Authorized representatives of the bidders, who have submitted tenders on time, may attend the tender opening in this office. These representative must bring with them an authority letter from their respective firms.

This tender is based on **Two Bid System**. The Technical Bid and the Price Bid are to be submitted separately. First, the technical bids of each firm will be opened and evaluated by the Technical Evaluation Committee. Based on the technical evaluation of these bids, the financial bids of eligible (Technically qualified) bidders will be opened. These Bids will be scrutinized and evaluated by the Committees constituted by the competent authority with reference to the parameters prescribed in the Tender Enquiry Document. The report of the Committee will decide the lowest bidder. The reports will be uploaded on CPP Portal and can be viewed by the bidders.

12. SCRUTINY AND EVALUATION OF TENDERS

(1). Unresponsive bids: The bids will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the Tender Enquiry Document. The bids are liable to be treated as non –

responsive and will be summarily ignored if following documents are not provided along with technical bids.

- (a) Checklist (Annexure-I).
- (b) Tender Acceptance Letter (Annexure-II) may be duly signed and stamped. (Bidder has to accept all the terms & conditions of the Tender Enquiry Document)
- (c) Tender Validity Period is shorter than the required period.
- (d) EMD documents (With required Amount, Validity, etc.) or the EMD Exemption Certificates (MSME/NSIC) have not been provided.
- (f) Bidder has not agreed to deposit the required performance security (In case of allotment of the tender).
- (g) By any means/reason, the incomplete bid uploaded on e-procurement.gov.in shall be treated as Unresponsive.

(2). Technical Evaluation:

The Technical Bids will be scrutinized and evaluated by the Committee with reference to the parameters prescribed in the TE document. During the Technical Bids scrutiny, the members of the Committee will check the salient features of the bids like Delivery Period, Earnest Money Deposit documents, other special features of the bids, as deemed fit.

Minor Informality/Irregularity/Non-Conformity:

If, during the preliminary examination, the purchaser finds any minor informality and/or irregularity and/or non-conformity in a tender, the purchaser may waive off the same, provided it does not constitute any material deviation and financial impact and also does not prejudice or affect the ranking order of the bidders. Wherever necessary, the purchaser will convey its observation on such 'minor' issues to the bidder asking the bidder to respond by a specified date. If the bidder does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, that bid is liable to be ignored.

(3) Financial Evaluation:

The Price Bids of the responsive bidders shall be scrutinized to get the ultimate/landing cost of stores by considering following elements:

- (a) Basic price
- (b) Goods and Service Tax (GST), as per Govt of India applicable in India
- (c) Insurance and transportation of goods up to user sites

13. Packing and Marking

The packing for the goods to be provided by the supplier should be strong and durable enough to withstand (Without limitation) the entire journey during transit including shipment (if any), rough handling, open storage etc. without any damage or deterioration of the packed goods.

14. Inspection, Testing and Acceptance Test

The purchaser/consignee reserves the right to inspect goods before their dispatch if required in technical requirement. Goods accepted by the purchaser/consignee and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's/consignee's right to reject the same later, if found deficient in terms of the warranty clause of the contract. Purchaser will not undertake any Pre dispatch inspection, unless mentioned, for imported stores in the supplier's country of origin. The stores will be sent to the supplier on the basis of supplier's own inspection at

the premises and guaranty and warranty. The stores will be accepted subject to final inspection and test before handing over the equipment to consignee.

SECTION – II

GENERAL CONDITIONS OF CONTRACT (GCC)

1. Whenever there is any conflict between the provision in the GCC under this section and that in the section “RFP for Radiosondes along with compatible ground receiving systems”, the provision contained in the section “**RFP for Radiosondes along with compatible ground receiving systems**” (Referred to as RFP) shall prevail and have an over-riding effect, i.e.

THE DETAILS GIVEN IN THE RFP WILL BE TREATED AS FINAL.

Any Special instructions as per “RFP for Radiosondes along with compatible ground receiving systems” section will also apply for this purchase. The conditions (like delivery schedule, mode of delivery & sites of delivery etc.) mentioned in “RFP for Radiosondes along with compatible ground receiving systems” section will apply for this purchase.

2. **Eligible Bidders** : The Indian firms in followings categories are eligible to participate in tender subject to fulfil other criteria in technical requirement section.
 - (a) Manufacturers of the required stores.
 - (b) Authorized Dealer/Supplier/Distributor of the manufacturer. The Indian bidder shall have to submit authorization certificate from OEM manufacturer.
 - (c) Custom Duty Exemption Certificate (CDEC) will NOT be provided to any firm by IMD (In case of any imports of store/material being made by any Indian Firm).

3. **Alternative Tenders** :
Alternative Tenders are not permitted. However, the bidders can quote alternate models meeting the tender specifications of same manufacturer with single EMD.

4. **Tender Validity**
The tenders shall remain valid for acceptance for a period of 180 days (one hundred eighty days) after the date of tender opening as prescribed in the TE document.

5. **Purchaser’s Right to accept any tender and to reject any or all tenders.**
The purchaser reserves the right to accept in part or in full any tender or reject any tender without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder(s).

6. **Earnest Money Deposit (EMD)**
The bidder shall furnish along with its tender, earnest money for an amount as shown in the tender notice (NIT). The earnest money is required to protect the purchaser against the risk of the bidder’s unwarranted conduct.

The bidders who are registered with SSI/ MSME/ NSIC, for the specific goods/ services (to be procured) as per tender enquiry specifications, at the time of submission of the Tender, are eligible for exemption from EMD.

The EMD shall be furnished either in the form of Fixed Deposit Receipt (FDR) or Bank Guarantee (BG) (as per annexure-IV) from any commercial bank doing business with the government. FDR should be issued in the favour of “DDO, O/o Director General of Meteorology, IMD, New Delhi”.

EMD shall be valid for period of at least sixty (60) days beyond the validity period of the tender, i.e. Validity of EMD should be 240 days starting from the date of opening of tender.

Refund of EMD: The EMD deposited by the Unsuccessful bidders will be returned to them **(Without any interest)** after expiry of the tender validity period. The EMD deposited by the Successful bidder(s) will be returned **(Without any interest)** after receipt of the Performance Security submitted by the bidder. The bidders have to submit pre receipt for obtaining their EMD in the **FORM GAR 43D** (annexure-V) in duplicate with original signatures. One form should be affixed with revenue stamp.

The clause “Encashment/Release of FDR/BG requires clearance certificate from Purchaser, i.e. DGM, IMD, New Delhi” must be mentioned in FDR/BG issued by the Bank.

Forfeit of EMD: Earnest money deposited by 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 the purchaser. The EMD deposited by the Successful bidder will be forfeited without prejudice to other rights of Purchaser if supplier fails to furnish the required performance security within the specified period.

Firm shall have to extend the validity of EMD if extension of tender validity is agreed on the request of purchaser in exceptional cases.

7. Performance Security

Within twenty one (21) days from date of the issue of issuing supply order of award by the purchaser, the supplier, shall furnish performance security to the purchaser for an amount equal to ten percent (10%) of the total contract value of the Supply Order for stores, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations.

PERFORMANCE SECURITY HAS TO BE SUBMITTED BY THE SUCCESSFUL BIDDER, IRRESPECTIVE OF ITS REGISTRATION WITH MSME/NSIC. PERFORMANCE SECURITY IS NOT RELAXED TO ANY SUPPLIER.

The Performance Security shall be either in the form of Fixed Deposit Receipt or Bank Guarantee drawn/issued by a Indian commercial bank doing government business in the prescribed form in favour of the purchaser. 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. Foreign bidder shall submit the Performance Security in the form of Bank Guarantee only.

The purchaser will release the Performance Security without any interest to the supplier on completion of the supplier's all contractual obligations including the warranty. The supplier shall submit pre receipt for obtaining their security.

8. Terms of Delivery

Goods shall be delivered by the supplier in accordance with the terms of delivery specified in the Supply Order on **F.O.R. basis**. Time for inland transportation of stores within India by foreign supplier shall be taken from the date on which stores are handed over to supplier by IMD after custom clearance. Suppliers should not deliver the goods without any valid delivery period. Purchaser shall not be held responsible for any thing (payment and loss of stores etc) if stores supplied without any valid delivery period as purchaser reserve the right to reject the delivery and terminate the supply order.

9. **Delivery schedule:** As per RFP.

10. Warranty:

Warranty for a period of 12 months from the date of acceptance or 15 months from the date of receipt in store (in different lots), whichever ever comes earlier. Custom charges if any, for Re-export/re-import of defective stores to the foreign supplier's country for replacement, shall be borne by supplier only. The Transportation cost and Octroi, etc., for replacement of defective stores shall be borne by the supplier only.

11. Penalty clause/Liquidated damages clause (LD)

The supplier shall deliver the goods as per the Supply Order within the time schedule specified by the purchaser in the "RFP" section. The delivery date, unless delivery is divided, on which all the items/stores/materials/services etc as per Supply Order are delivered shall be taken into account for penalty/LD purpose.

The purchaser shall, without prejudice to other rights and remedies available to the purchaser under the contract, deduct from the contract price a sum equivalent to 0.5% (half percent) per week of delay or part thereof on delayed supply of goods and/or delayed services subject to a maximum of 10% of the contract price of delayed items.

Once the maximum is reached purchaser may also consider followings:

- (a) Forfeiture of its performance security and
- (b) Termination of the contract for default.

The supplier shall not be held responsible for any delay in custom clearance by purchaser, handing over proper site by consignee and any other delay in part of consignee/purchaser if responsible. These periods shall not be counted in LD. The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to the purchaser for extension of delivery period and obtain the same before despatch. In case the supplier dispatches 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 purchaser. **The supplier shall inform to the purchaser (CPU) directly in writing about these delays on part of IMD.**

12. Award Criteria and Tolerance Clause:

The Supply Order shall be issued to the eligible responsive tender evaluated as the most economical, technically qualified and suitable to the requirements subject to the availability of funds. The purchaser reserves the right to increase or decrease the quantity of required goods up to plus minus fifteen percent ($\pm 15\%$) till the placement of supply order without any change in the terms & conditions and prices quoted by the bidders.

13. Modification of contract

If necessary, the purchaser may, by a written order given to the supplier at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract. If the supplier doesn't agree to the adjustment made by the purchaser, the supplier shall convey its views to the purchaser within fifteen (15) days from the date of the supplier's receipt of the purchaser's amendment / modification of the contract.

14. Taxes and Duties in India:

- (1) **Duty and Local Taxes:** As per Govt. of India Rules, the applicable GST shall be paid to the successful bidder/supplier. Normally, the materials to be supplied to Govt. Departments against Govt. contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. However, the local Town/Municipal Body regulations, at times, provide for such exemption only on production of exemption certificate from any authorized officer. The suppliers should ensure that the stores ordered against contracts placed by this office are exempted from levy of town duty/Octroi duty, Terminal tax or other local taxes and duties. Wherever required, they should obtain the exemption certificate from the indentor /consignee concerned, to avoid payment of such local taxes or duties. The supplier shall pay the Octroi, entry tax etc. if exemption certificate not agreed by local authorities and same may be got reimbursed from purchaser on proof of payments.

Supply of Road Permits by the indentor /consignees: In all such cases where the requirement of Road Permit for entry of goods into a particular State is mandatory, the following provisions shall be strictly followed: -

- (a) The supplier shall request the indentor /consignee for providing Road permit/ Way bill within 10 days of the receipt of the Supply order. The supplier shall furnish all the necessary information and documents in this regard to indentor/consignee.
- (b) On receipt of the above request from the supplier, the indentor/consignee concerned shall arrange to provide the Road permit/Way Bill in the prescribed form to the supplier within a maximum period of two weeks so that the same reaches the supplier before the dispatch of the stores. However, in cases where the Road permit/Way Bill is issued on proof of actual invoice of the material, the consignee shall arrange to provide the Road permit/Way Bill from appropriate authorities within a maximum period of 5 days from the receipt of invoice.
- (c) The supplier shall pay the local charges/taxes if exemption certificate not agreed by local authority and same will be reimbursed by purchaser on submission of receipt. The supplier shall not be held responsible for any delay in supply due to non-supply/delayed supply of Road permit.
- (2) **Income Tax:** Deduction of Income Tax at Source from the payment to the suppliers shall be done as per existing law in force. The bidders (Foreign as well as Indian) may visit the website of Income Tax Department of India for details of Tax Liabilities, Rules, and Procedures etc. The bidders shall have to provide their Permanent Income Tax Number (PAN) and TAN. Firm may also mention the applicable rates of TDS as per DTAA with India. Copy of same may also be enclosed. Foreign vendor shall have to mention the details of establishment in India if any.

15. Terms and Mode of Payment

Payment Terms: Payment 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 Supply Order if not specified elsewhere in the document.

100% payment shall be made to the Indian supplier in Indian currency after receipt of entire goods/stores at sites and acceptance by consignee on submission of the following documents. (No payment shall be made for partial delivery. However if delivery is in lots, lot-wise payments may be processed.)

- (a) Three copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount.
- (b) Consignee Receipt Certificate in original issued by the authorized representative of the consignee
- (c) Copies of Delivery Challan identifying contents of each package.
- (d) Inspection certificate by the nominated Inspection agency, if any.
- (e) Insurance Certificate
- (f) PAN Card of the firm
- (g) Final Acceptance Report from consignee.

Note : The bidder shall submit detailed particulars of his bank account like

- (a) Account Number
- (b) Bank Name
- (c) Branch Name
- (d) Address of Firm
- (e) IFS code
- (f) MICR No.
- (g) Telephone No.
- (h) GST Registration Number

16. Termination of tender by the Purchaser

From the time of submission of tender up to the time of issuing of the Supply Order, if a bidder needs to contact the purchaser for any reason relating to this tender enquiry and / or its tender, it should do so only in writing.

In case a bidder attempts to influence the purchaser in the purchaser's decision on scrutiny, comparison & evaluation of tenders and awarding the contract, the tender of the bidder shall be liable for rejection in addition to appropriate administrative actions being taken against that bidder, as deemed fit by the purchaser.

The purchaser, without prejudice to any other contractual rights and remedies available to it (the purchaser), may, by written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the purchaser. In the event of the purchaser terminates the contract in whole or in part, the purchaser may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the supplier shall be liable to the purchaser for the extra expenditure, if any, incurred by the purchaser for arranging such procurement.

If the supplier becomes bankrupt or otherwise insolvent, the purchaser reserves the right to terminate the contract at any time, by serving written notice to the supplier without any compensation, whatsoever, to the supplier, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the purchaser

17. Arbitration clause

If dispute or difference of any kind shall arise between the purchaser and the supplier in connection with or relating to the extension of contract, the parties shall make every effort to resolve the same amicably by mutual consultations.

If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the "RFP" section either the purchaser or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per Indian Arbitration and Conciliation Act, 1996. In the case of a dispute or difference arising between the Purchaser/ Consignee and all suppliers relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitration of an officer, appointed to be the arbitrator by the Director General of Meteorology. The award of the arbitrator shall be final and binding on the parties to the contract. Each party shall bear its own cost.

Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., New Delhi. The contract shall be interpreted in accordance with the laws of India.

18. Fall Clause

The bidder undertakes that it has not supplied/is not supplying similar products/systems or subsystems at a price lower than that offered in the present bid in respect of Ministry/Department of the Government of India or Public Sector Unit (PSU) and if it is found at any stage that similar products/systems or subsystems was supplied by the BIDDER. To any Ministry/Department of the Government of India or Public Sector Unit (PSU) at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and difference in the cost would be refunded by the BIDDER to the BUYER (India Meteorological Department) or it will adjusted from their bills, if the contract has already been concluded.

SECTION – III
SPECIAL CONDITIONS OF TENDER (SCT)

1. The Government of India lays down public procurement policies for Micro, Small and Medium Enterprises (MSMEs), from time to time, to help inclusive national economic growth by providing long-term support these enterprises and disadvantaged sections of society and to address environmental concerns.
2. In this tender, the participating Micro, Small and Medium Enterprises (MSMEs) quoting price within price band of L1+15% (Fifteen percent) shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than an MSME. Such MSME shall be allowed to supply up to 20% (Twenty percent) of total tendered value. The 20% (Twenty percent) quantity is to be distributed proportionately among these bidders, in case there are more than one MSME within such price band.
3. Within this 20% (Twenty Percent) quantity, a purchase preference of 4% (Four percent) i.e. 4% (Four percent) out of 20% (Twenty percent) is reserved for MSMEs owned by Scheduled Caste (SC)/Scheduled Tribe (ST) entrepreneurs (if they participate in the tender process and match the L1 price). Provided that, in event of failure of such SC/ST MSME to participate in tender process or meet tender requirements and L1 price, four per cent sub-target shall be met from other MSME. The MSMEs would be treated as owned by SC/ ST entrepreneurs.
4. Where any Aggregator has been appointed by the Ministry of MSME, themselves quote on behalf of some MSME units, such offers will be considered as offers from MSME units and all such facilities would be extended to these also.
5. This Policy is meant for procurement of only goods produced and services rendered by MSMEs and not for any trading activities by them. An MSME Unit will not get any purchase preference over another MSME Unit.

CHECKLIST

S. N	Activity	Compliance Yes/ No/ NA	Page No. of bid
1.	(i) Is the EMD of required amount enclosed ?		
	(ii) Is the Validity of EMD (FDR / BG in INR only) 240 days starting from the date of opening of tender ?		
	(iii) Is Registration certificate from NSIC attached for relaxation of EMD ?		
	(iv) Is the "EMD Submitting Firm" other than the participating firm? If yes, then bid is likely to be ignored.		
2.	Have you kept validity of your bid as per the TE document?		
3.	Have you enclosed duly filled and signed Tender Acceptance Letter on firm's letterhead (Accepting all the terms and conditions of the tender).(Tenders may be ignored if not signed)		
4.	Have you enclosed clause-by-clause <u>compliance statement</u> for the "List of requirements/ technical specifications" section?		
5.	Have you submitted copy of the last purchase order(s) and end user certificate?		
6.	(i) Is tender Submitted as a Manufacturer/OEM?		
	(ii) Is tender Submitted as an authorized Agent/Dealer/Supplier/Distributor of OEM? Is authorisation certificate attached ?		
	(iii) Is tender Submitted as an Integrator? Whether Back-to-back support agreement with stores manufacturer company attached?		
	(iv) Is tender submitted by Indian agent quoting on behalf of foreign principal ? If yes, whether the necessary documents are attached ?		
7.	(i) Permanent Account No. of bidding firm with proof.		
	(ii) Is sales & service tax number with registration certificate attached?		
8.	Name of tender currency shall be accepted in INR only.		
9.	Name of the supplier with complete address to whom supply order is to be placed.		

(Signature with date)
(Full name, designation on behalf of the Bidder)

TENDER ACCEPTANCE LETTER

(To be given on Company Letter Head)

(All the terms & conditions of tender document are acceptable to the bidder)

To,

The Director General of Meteorology,
India Meteorological Department,
Lodi Road, New Delhi-110003

Ref: Tender Enquiry document No. CPU/53/_____ dated _____

I/We, the undersigned have examined the above mentioned TE document, including amendment/corrigendum No. _____, dated _____ (if any), the receipt of which is hereby confirmed. We now offer to supply and deliver *the goods and services in conformity with your above referred document.*

If our tender is accepted, we undertake to supply the goods and perform the services (Installation & commissioning etc.) as mentioned in tender document with the delivery schedule specified in the "List of requirements/ technical specifications" section.

I/We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form for due performance of the contract.

I/We agree to keep our tender valid for acceptance as required in tender document or for subsequently extended period, if any, agreed to by us. I/We also accordingly confirm to abide by this tender up to the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. I/We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

I/We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities.

I/We confirm that we fully agree to the terms and conditions specified in above mentioned TE document, including amendment/ corrigendum etc. if any.

(Signature with date) : _____

(Name and designation) : _____

(With Official Seal)

(Duly authorized to sign the tender
for and on behalf of the bidder)

निविदा स्वीकृत फॉर्म

(निविदाकर्ता को निविदा कागजात के सभी निबंधन व शर्तें स्वीकार्य होने से संबंधित)

दिनांक : _____

सेवा में,

मौसम विज्ञान के महानिदेशक ,
भारत मौसम विज्ञान विभाग,
लोदी रोड, नई दिल्ली- 110003

संदर्भ: दिनांक _____ का आपका टी ई कागजात सं. सीपीयू/53/ _____

मैं/ हम , अधेहस्ताक्षरी ने उपर्युक्त संशोधन/ शुद्धिपत्र सं.-----दिनांक------(यदि कोई हो तो) सहित टी ई कागजात की जाँच की, जिसकी पावती की एतदद्वारा पुष्टि की जाती है। हम आपके उक्त संदर्भित कागजात की अनुरूपता में-----
------(सामान और सेवाओं का ब्यौरा) आपूर्ति और सुपुर्दगी का प्रस्ताव करते हैं।

यदि हमारी निविदा स्वीकृत होती है तो हम आर पी एफ अपेक्षाओं में विनिर्दिष्ट सुपुर्दगी अनुसूची के साथ निविदा कागजात में उल्लिखित सेवाओं (संस्थापन और आरंभ आदि) के निष्पादन तथा सामान की आपूर्ति करने के लिए वचनबद्ध हैं।

मैं/ हम यह भी पुष्टि करते हैं कि यदि हमारी निविदा स्वीकार की जाती है तो हम संविदा को नियत निष्पादन के लिए स्वीकार्य रूप में अपेक्षित मात्रा में निष्पादन सुरक्षा उपलब्ध कराएंगे।

मैं/ हम सहमति के अनुसार अपनी निविदा को निविदा कागजात की आवश्यकता के अनुसार स्वीकृति अथवा तत्पश्चात विस्तारित अवधि के लिए, यदि कोई हो तो, वैध रखेंगे। मैं/ हम तदनुसार इस निविदा को उपर्युक्त अवधि तक स्वीकार करने की पुष्टि करते हैं और उपर्युक्त अवधि को समाप्ति से पहले इस निविदा को किसी भी समय स्वीकार कर सकते हैं। मैं/ हम पुष्टि करते हैं कि जब तक औपचारिक संविदा तैयार होती है, यह निविदा आपकी लिखित स्वीकृति से उपर्युक्त अवधि तक हमारे बीच बाध्यकारी संविदा रहेगी।

मैं/ हम यह भी समझते हैं कि आप उपर्युक्त संदर्भित निविदा जाँच के संबंध में प्राप्त हुए सबसे कम या अन्य किसी निविदा को स्वीकार करने के लिए बाध्य नहीं हैं।

हम पुष्टि करते हैं कि हम किसी सरकारी प्राधिकरण द्वारा विपंजीकृत/ प्रतिबंधित/ काली सूची में नहीं हैं।

मैं/हम पुष्टि करते हैं कि उपरलिखित टी ई कागजात में विनिर्दिष्ट संशोधन/ शुद्धिपत्र सहित निबंधन और शर्तों से, यदि कोई हो तो, पूर्णतः सहमत हैं।

(तारीख सहित हस्ताक्षर)

(नाम और पदनाम)

निविदाकार की ओर से निविदा पर हस्ताक्षर करने के लिए विधिवत प्राधिकृत

MANUFACTURER'S AUTHORIZATION FORM

(Bidders, quoting products other than his own manufactured products, shall submit this certificate in following format)

To,
The Director General of Meteorology,
India Meteorological Department,
Lodi Road, New Delhi-110003.

Dear Sirs,

Ref. Your TE document No _____, dated _____

We, _____ who are proven and reputable manufacturers of _____ (name and description of the goods offered in the tender) having factories at _____, hereby authorise Messrs _____ (name and address of the agent) to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also hereby extend our full warranty and AMC as Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this TE document.

Yours faithfully,

[Signature with date, name and designation]

for and on behalf of Messrs _____

[Name & address of the manufacturers]

Note: 1.This letter of authorisation should be on the letter head of the manufacturing firm and should be signed by a person competent and having legal binding to the manufacturer.

**MODEL BANK GUARANTEE FORMAT FOR FURNISHING EMD
(format only)**

Whereas
(hereinafter called the "Bidder")
has submitted their offer dated.....
for the supply of
(hereinafter called the "tender")
against the purchaser's Tender Enquiry No.
KNOW ALL MEN by these presents that WE
of having our registered office at
..... are bound unto
(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 of20.....

THE CONDITIONS OF THIS OBLIGATION ARE:

- (1) If the bidder withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.

- (2) If the bidder having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-
 - a) If the bidder fails to furnish the Performance Security for the due performance of the contract.
 - b) Fails or refuses to accept/execute the contract.

WE undertake to pay the "Director General of Meteorology, India Meteorological Department", up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 60 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

.....
(Signature of the authorized officer of the Bank)

.....
Name and designation of the officer

.....
Seal, name & address of the Bank and address of the Branch

O/o Director General of Meteorology
 Lodi Road, New Delhi-110003
FORM
GAR 43D
 [See Rule 186(1)]

APPLICATION-CUM-BILL FOR REFUND OF DEPOSIT

MONTH.....

BILL NO.

Original Challan or Receipt No. & date	Bank/Office in which deposited	Name of depositor	Amount Originally deposited
1	2	3	4

Received this day of20..... the sum of
 Rs. (Rupees.) only
 being repayable on Account of release of deposited described above.

Claimant's Signature.
 (with revenue stamp affixed)

For use in Departmental Office

- Received payment of Rs..... (Rupees.....) for arranging disbursal to claimant.
- Passed for Payment of Rs.(Rupees) to claimant(s) Shri/Smt./Ms..... against personal deposit account administered by me.

Dated.....

Assistant Meteorologist (DDO)
 for Director General of Meteorology
 In case of endorsement of above

For use in Pay & Account office in case of endorsement of 1 above

Passed for payment of Rs.
 Payment by Cheque No.

Pay & Accounts Office

PRICE SCHEDULE (Financial Bid format)

S.N	Name of Item/Store	Make	Model	Quantity	Unit price			Total price (5x8)
					Base price	Applicable taxes & duties	Total unit price	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	GPS Radiosondes							
2	Complete Ground Systems							
3	Documentation & Manuals							
4	Packaging & Transportation							
5	SAT & training							
6	Warranty							
7	GST							
8	Misc. Charges							

Total Tender price: (In words)

Note:

1. The names of each stores/items must be mentioned including services if any. The deliverables list attached with financial bid must be exactly same as per technical bids without mentioning prices.
2. Charges ,if any, for inland (within the India) Transportation /freight/insurance of stores shall be mentioned separately. In case not mentioned, it is treated as free of cost.
3. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
4. All applicable taxes must be mentioned against each item. Rate of each applicable tax must be mentioned in price bid.
5. Price schedule for optional items should be attached separately and not to be mentioned in main price bid.

Place : _____

Signature of Bidder _____

Date : _____

Seal of the Bidder _____

RFP for Procurement of 8000 units of GPS based Radiosondes along with compatible ground receiving and processing system from Indian Sources		
SI No.		Parameter
1	0	Purpose
1	1	IMD intends to procure 8000 GPS based Radiosondes along with compatible ground receiving and processing system from Indian sources
1	2	This document specifies an upper air radiosounding system and GPS radiosonde, capable of measuring pressure, temperature, humidity, wind speed and wind direction profiles using a balloon carried radiosonde. The system shall operate in the 400.15-406 MHz meteorological band. The system shall use global positioning system (GPS) for wind measurement.
2	0	General requirements
2	1	The system shall include all items necessary to measure, process, output, archive and display the atmospheric data.
2	2	Either the system being offered, consisting of ground equipment and radiosonde, should have been manufactured in India or if manufactured in any other country, the item is to be quoted in Indian Rupees.
2	3	The system shall be automated so that operator action is not needed after a sounding is initiated. Initiating a sounding includes balloon filling, radiosonde preparation, system startup, surface observation entry and balloon launch.
2	4	As recommended by the WMO CIMO Guide No 8, radiosonde measurement accuracy should always be checked in a controlled environment before the radiosonde is launched to prevent the launch of faulty radiosondes and to improve calibration accuracy by adjusting for small changes in calibration that may have occurred when the radiosonde was transported to the launch site and during storage. Necessary equipment and software for this purpose must be included in the system.
2	5	For reliable data transfer from the radiosonde to the ground station, digital modulation with efficient error detection and correction method shall be used.
2	6	To improve reliability and to minimize the need for maintenance, the system shall contain no moving parts other than cooling fans in the indoor equipment.
2	7	Detailed, point wise compliance statement shall be provided by the bidder and shall specifically state their compliance / Non-compliance in the text form in detail. Compliance and non compliance of IMD specifications shall be clearly stated and shall be supported by text and literature.
2	8	For the purpose of Technical Evaluation the vendor has to install the system at IMD New Delhi and shall provide the consumables (balloon, radiosondes and gas for balloon filling) for five ascents. The detailed evaluation and marking criterion is given at Annexure – I.
3	0	Measurement and accuracy requirements
3	1	Temperature: 50 degree C to - 90 degree C
3	2	Humidity: 0 to 100 %
3	3	Pressure and geopotential height: 1100 to 1 hPa
3	4	Wind: 0 to 75 m/s
		As per annexure-I
4	0	Radiosonde- Transmitter
4	1	To make it possible to choose a free frequency slot in the frequency band, also in noisy conditions, it shall be possible to tune the radiosonde transmitter to any frequency within the frequency band.

4	2	Frequency range shall be limited so that inadvertent tuning to unauthorized frequency is prevented. In addition to manual tuning, the system must be capable of tuning the radiosonde automatically to a predefined value within the range.
4	3	The transmission power (effective radiation power) shall be high enough to ensure reliable telemetry in accordance with other requirements in this specification and to ensure received signal better than the sensitivity of the receiver up to the radial distance of atleast 200 Kms.
5	0	RADIOSONDE-Physical construction
5	1	The design and construction of the radiosonde shall be such that no physical, electrical or chemical hazards are presented to operators, other personnel, or to any unskilled labour who requires access to the radiosonde preparation room. The design shall also be free from projections that may cause hazard to humans or animals during preparation or on landing.
5	2	The radiosondes should be light weight, the maximum weight of the sonde when ready for launch shall be less than 200 grams.
5	3	The radiosonde and de-reeler design must enable a balloon launch in wind speeds up to 35m/s.
5	4	The suspension string between the radiosonde and balloon shall be 30 meters or more to eliminate possible temperature errors caused by the balloon.
5	5	The suspension string shall be uncoiled slowly enough to prevent the sonde from hitting the ground when released.
5	6	Humidity sensor must be designed so that the risk of ice formation on the humidity sensor is minimized.
5	7	Both, humidity and temperature sensor shall be mounted externally so that air that has previously been in contact with the radiosonde body does not affect the measurement.
5	8	Both, humidity and temperature sensor shall be mounted so that thermal conduction from the radiosonde body does not affect the measurement. It shall be ensured that the sensor in-flight position in relation to sonde body is the same in every radiosonde i.e., the position cannot be altered by the user.
5	9	Both, humidity and temperature sensor shall recover fast from high humidity conditions or a cloud so that cloud top is reliably detected.
6	0	Radiosonde electronics
6	1	Battery capacity shall be sufficient for a flight of 120 minutes after a 15 minutes preparation time. Total capacity shall be at least 135 minutes.
6	2	Sampling rate of all sensors and wind data shall be at least once per second (1Hz).
7	0	Radiosonde calibration
7	1	Radiosonde must be calibrated before delivery.
7	2	Calibration data shall be stored in the radiosonde and be read automatically by the ground equipment during radiosonde preparation.
7	3	The shelf life of the radiosonde, including battery shall be 12 months or higher.
8	0	Ground system - general
8	1	Ground system shall include antennae, receiver, ground check system, general purpose desktop computer, colour printer and any other equipment necessary to perform a sounding.
8	2	All operator actions shall be through a single user interface.
8	3	When installed the design and construction of the system shall be such that no physical, electrical or chemical hazards are presented to operators, other users of the room, or to any unskilled labour who requires access to the room.

8	4	System description at functional block level shall be provided.
8	5	The UPS shall have capacity for running the complete sounding system for 2 hours. Rating and frequency of the UPS input voltage shall be chosen to match the available mains voltage.
8	6	Input voltage range shall be 200 to 240 VAC
8	7	Operating frequency range shall be 50-60Hz.
8	8	Feed Antenna cables shall be at least 30 meters in length.
9	0	Receiver
9	1	The system shall have a real-time spectrum display that shows the frequency occupation in the meteorological band (400.15-406 MHz or 1668.4-1700 MHz) so that operator can choose a frequency in an unoccupied and noise-free slot.
9	2	It shall be possible to tune the frequency within the range.
9	3	It shall be possible to limit the usable frequency range in the ground system so that inadvertent tuning of radiosonde to unauthorized frequency is prevented.
9	4	The system shall be able to receive and correctly process transmissions from the radiosonde when other radiosondes of similar type are operating at a frequency separation of +/- 200 kHz and beyond 10 km distance from the receiver.
9	5	The offered antenna shall be able to reliably receive the radiosonde signal at elevation angle of 5 degrees or lower.
9	6	The system shall be capable of maintaining telemetry when radiosonde is directly above the receiving antenna.
9	7	Antennae shall contain no moving parts and any control, such as direction control, shall be automatic and fully electronic.
9	8	It shall be possible to transfer processed data via Ethernet local area network (LAN) using TCP/IP, WMO SOCKET and WMO FTP protocol.
10	0	Main computer and software
10	1	The sounding software shall run in Windows/Linux operating system. The operating version shall be fully supported along with licensed version.
10	2	The computer machine shall be general purpose desktop type, available off the shelf in open market.
10	3	All sounding data shall be stored into single data file to preserve data integrity and to make it easy to manipulate archived sounding data.
10	4	The system computer shall have hard disk space for storage of at least 1000 soundings.
10	5	The system computer shall be equipped with a 21" or larger flat display.
10	6	The system must be capable of producing traditional alphanumeric coded meteorological messages as specified in the latest WMO Manual on codes. TEMP, PILOT, CLIMATTEMP including national practices as applied in India.
10	7	Format of all reports and text data output files to be finalized by mutual consultation between supplier & IMD.
10	8	The system must be capable of producing data sets in BUFR format as specified in the latest WMO Manual on codes. Tenderer shall list the available BUFR message sequences.
10	9	Meteorological messages shall be coded automatically and as soon as sufficient amount of data has accumulated. For example TEMP part A shall be coded immediately after data from surface to 100hPa level is received and processed. The complete TEMP report including all parts shall then be coded after the sounding is finished.

10	10	It shall be possible to transfer any of the produced data sets or the complete sounding data file automatically to another computer without operator intervention. The data transfer shall take place immediately after sufficient amount of data is collected also during sounding. The data transfer shall be via local area network (LAN).
10	11	The system software shall include diagnostics capabilities to detect faults and malfunctions in any of the system components. The results of the diagnostics shall be recorded into log files and any detected malfunction shall be reported to the user either on the system main display or with indicator lights on the faulty unit. The fault detection shall be at module level (line-replaceable unit).
11	0	Environmental
11	1	Operating temperature range, indoor equipment: +10 to +50°C
11	2	Operating humidity range, indoor equipment: 90% non-condensing
11	3	Outdoor equipment temperature range: -40 to +50°C
11	4	Outdoor equipment humidity range: 30 to 100%
11	5	Maximum wind speed (outdoor equipment): 65m/s
11	6	Rain sealing: Weather Resistant
12	0	Operation
12	1	Facility to manually enter surface observation data (pressure, temperature, humidity, wind, cloud code, present weather, past weather etc) before launch.
13	0	Software
13	1	The computer clock shall be synchronized to the GPS time.
13	2	There must be a near real-time graphical display for checking sounding data during ascent.
13	3	System time and the flight time after balloon launch have to be displayed continuously during a sounding.
13	4	Sounding data shall be stored in near-real time to prevent data loss in case of power break or similar failure.
13	5	For comparison purposes it must be possible to compare vertical profiles from the data archived in graphical form.
13	6	It shall be possible to print out data either in numerical (tabular) and graphical format.
13	7	Prior to and during a sounding it shall be possible to view the status of the GPS signals received locally and by the radiosonde.
13	8	The contractor shall provide a display that will show the position in kilometers of the radiosonde from the point of launch to the current position at any time during the flight. This display shall be operator selectable and the flight track shall be displayed as a continuous line.
13	9	It must be possible to re-run the sounding data using different computing parameters. It shall be possible to code new messages and new data sets based on the new data from a re-ran sounding.
13	10	It shall be possible to initiate message coding and data transfer both manually and automatically. The system shall incorporate user adjustable parameters to define the time or criteria for automatic message coding and data transfer.
13	11	Software shall be able to generate following plots: Stuve thermodynamic diagram, Tephigram Plot of pressure versus temperature, geopotential height & humidity. Wind speed and direction, Balloon track with time & Total precipitable water vapours
13	12	CLIMATE TEMP (MONTHLY) as per IMD's requirement shall be prepared
14	0	Documentation

14	1	All operating and maintenance documentation shall be provided in electronic form and be pre-loaded on the computer hard disk. Total Nine sets of documents in hard copy shall be provided. Each set of document shall contain:
14	2	I. Instruction for operation.
		II. Maintenance and service instructions with detailed circuit diagram, wiring and mechanical drawings.
		III. Installation manuals with complete drawings and details of electrical wiring.
		The supplier shall provide Acceptance Test (AT) procedure document as per the RFP in consultation with and agreeable to IMD.
15	0	Acceptance :
15	1	The AT at New Delhi shall be carried out in accordance with the mutually agreed detailed test plan and procedure provided by successful bidder. Any special equipment needed, shall be provided by the supplier.
15	2	AT and training in operation and maintenance to be conducted for 3 days at New Delhi.
15	3	Site Acceptance Test (SAT) at each site. The system shall be declared commissioned only after successful completion of SAT.
16	0	Warranty
16	1	Warranty for a period of 18 months from the date of acceptance of the system.
16	2	During the warranty period, if a problem is reported by any of the station of IMD, the firm should respond and take appropriate action within 24 hours. In case the system remains inoperative for duration of 5 days or more for reasons of defects. Warranty period will be extended for the corresponding period. All expenses to be borne by the firm.
16	3	During the warranty period for radiosondes declared defective before the launch, replacement shall be provided at O/o DDGM (UI), New Delhi free of cost i.e. entire transport expenses to be borne by the firm.
17	0	List of deliverables
17	1	Radiosonde compatible with ground system: 8000 Numbers
17	2	Ground System including all the items i.e. software, Receiver, Processor, Antenna, ground check system, Personal Computer, Printer, UPS etc: 10 sets
17	3	Installation, Operation & Maintenance Manuals: 11 sets
17	4	Acceptance Test (AT) at New Delhi.
17	5	Installation and commissioning of the systems at 10 sites in India, SAT & Site Training in operation and maintenance for 3 days at each site.
17	6	Transportation of radiosounding system along with 800 Nos. of radiosondes to each of the 10 sites after successful AT at Delhi.
18	0	Delivery schedule
18	1	100 % supply within 3 months from date of placement of supply order.
18	2	Acceptance Test (AT) at New Delhi to be completed within 4 months from supply order.
18	3	All the 10 installations, SAT and commissioning to be completed within 6 months from the date of placement of supply order. The tentative list of the stations is given in annexure-II.
19	0	Qualification Criteria
19	1	Equipment / System offered must be of the most recent series/models incorporating the latest improvements in design.
19	2	That adequate and specialized expertise is already available or will be made available following the execution of the contract, to ensure that the support services are responsive and adequate.

19	3	Details of Service Centres and information on service support facilities that would be provided after the warranty period
20	0	Financial Qualifying Criteria
20	1	An undertaking (self-certificate) is to be submitted that the Organization has not been blacklisted during last 3 years by any Central / State Government Department / Organization
20	2	The average annual financial turnover of 'The bidder' during the last three years, ending on 31st March, 2019 should be at Rs. 2 Crore, as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant / Cost Accountant in India or equivalent in relevant countries
20	3	Bidder Firm (manufacturer or principal of authorized representative) should not have suffered any financial loss for more than one year during the last three years, ending on 31st March, 2019.
20	4	The net worth of the Bidder firm (manufacturer or principal of authorized representative) should not be negative on 31st March, 2019 and also ii) should have not eroded by more than 30% (thirty percent) in the last three years, ending on 31st March, 2019.
20	5	The Bidder should be a manufacturer /authorized representative of a manufacturer who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the "Technical Specification". The Manufacturers' Authorization Form must be enclosed with the technical bid.
21	0	Data Validation
21	1	Data to be validated as per Monthly Monitoring Reports of NCMRWF / ECMWF. Not more than 10 % of the data observed by the 10 stations must be rejected. If the percentage of data rejected is more than 10 % the performance guarantee may be forfeited.

During the Technical Evaluation of the system the following evaluation criterion will be followed.

The firm will install the system for evaluation at IMD New Delhi. Consumables required for taking ascent (Sonde, Balloon, Gas) will be provided by the firm. Five Nos. of ascents will be taken for evaluation. The data received (O) will be compared with the actual radiosonde available at New Delhi observatory (simultaneous launch) or NCMRWF first guess data (B) at different standard levels and Marks will be awarded for each parameter as per the details given below:

HEIGHT (H₁ to H₅)

Ascent last level more than 30 Km	:	5 Marks
Ascent last level 28 - 30 Km	:	4 Marks
Ascent last level 25 – 28 Km	:	3 Marks
Ascent last level 22 – 25 Km	:	2 Marks
Ascent last level below 22 Km	:	0 Marks

OTHER PARAMETERS

	A	B	C	D	E	
Pressure Level (hPa)	Temp. (O-B) in °K	Relative Hum. (O-B) in %	Wind Speed m/s (O-B)	Wind Direction ⁰ (O-B)	Geo-potential height (gpm) (O-B) %	Marks
850	Less than or equal to ±0.5	Less than or equal to ± 5	Less than or equal to ± 1	Less than or equal to ± 5	Less than or equal to ±1	5
850	> ±0.5 to ≤ ±1	> ± 5 to ≤ ±10	> ± 1 to ≤ ±2	> ±5 to ≤ ±10	> ± 1 to ≤ ±1.5	4
850	> ± 1 to ≤ ± 1.5	> ± 10 to ≤ ±15	> ±2 to ≤ ±3	> ±10 to ≤ ±15	> ± 1.5 to ≤ ±2	3
850	More than ± 1.5	More than ±15	More than ±3	More than ±15	More than ± 2	0
700	Less than or equal to ±0.5	Less than or equal to ± 5	Less than or equal to ± 1	Less than or equal to ± 5	Less than or equal to ±1	5
700	> ±0.5 to ≤ ±1	> ± 5 to ≤ ±10	> ± 1 to ≤ ±2	> ±5 to ≤ ±10	> ± 1 to ≤ ±1.5	4
700	> ± 1 to ≤ ± 1.5	> ± 10 to ≤ ±15	> ±2 to ≤ ±3	> ±10 to ≤ ±15	> ± 1.5 to ≤ ±2	3
700	More than ± 1.5	More than ±15	More than ±3	More than ±15	More than ± 2	0

500	Less than or equal to ± 0.5	Less than or equal to ± 5	Less than or equal to ± 1	Less than or equal to ± 5	Less than or equal to ± 1	5
500	$> \pm 0.5$ to $\leq \pm 1$	$> \pm 5$ to $\leq \pm 10$	$> \pm 1$ to $\leq \pm 2$	$> \pm 5$ to $\leq \pm 10$	$> \pm 1$ to $\leq \pm 1.5$	4
500	$> \pm 1$ to $\leq \pm 1.5$	$> \pm 10$ to $\leq \pm 15$	$> \pm 2$ to $\leq \pm 3$	$> \pm 10$ to $\leq \pm 15$	$> \pm 1.5$ to $\leq \pm 2$	3
500	More than ± 1.5	More than ± 15	More than ± 3	More than ± 15	More than ± 2	0
250	Less than or equal to ± 0.5	Less than or equal to ± 5	Less than or equal to ± 1	Less than or equal to ± 5	Less than or equal to ± 1	5
250	$> \pm 0.5$ to $\leq \pm 1$	$> \pm 5$ to $\leq \pm 10$	$> \pm 1$ to $\leq \pm 2$	$> \pm 5$ to $\leq \pm 10$	$> \pm 1$ to $\leq \pm 1.5$	4
250	$> \pm 1$ to $\leq \pm 1.5$	$> \pm 10$ to $\leq \pm 15$	$> \pm 2$ to $\leq \pm 3$	$> \pm 10$ to $\leq \pm 15$	$> \pm 1.5$ to $\leq \pm 2$	3
250	More than ± 1.5	More than ± 15	More than ± 3	More than ± 15	More than ± 2	0
100	Less than or equal to ± 1	Not considered	Less than or equal to ± 2	Less than or equal to ± 5	Less than or equal to ± 0.5	5
100	$> \pm 1$ to $\leq \pm 2$	Not considered	$> \pm 2$ to $\leq \pm 3$	$> \pm 5$ to $\leq \pm 10$	$> \pm 0.5$ to $\leq \pm 1$	4
100	$> \pm 2$ to $\leq \pm 3$	Not considered	$> \pm 3$ to $\leq \pm 4$	$> \pm 10$ to $\leq \pm 15$	$> \pm 1$ to $\leq \pm 1.5$	3
100	More than ± 3	Not considered	More than ± 4	More than ± 15	More than ± 1.5	0
50	Less than or equal to ± 0.5	Not considered	Less than or equal to ± 1	Less than or equal to ± 5	Less than or equal to ± 0.5	5
50	> 0.5 to $\leq \pm 1$	Not considered	$> \pm 1$ to $\leq \pm 2$	$> \pm 5$ to $\leq \pm 10$	$> \pm 0.5$ to $\leq \pm 1$	4
50	$> \pm 1$ to $\leq \pm 1.5$	Not considered	$> \pm 2$ to $\leq \pm 3$	$> \pm 10$ to $\leq \pm 15$	$> \pm 1$ to $\leq \pm 1.5$	3
50	More than ± 1.5	Not considered	More than ± 3	More than ± 15	More than ± 1.5	0

Average marks of 5 ascents shall be considered for qualifications. Marks A, B, C D and E will be awarded for each of the five ascents for the above mentioned 6 pressure levels. Average Marks for each parameter will be considered for evaluation. To qualify technically, the bidder to score minimum 3.0 marks out of 5 in each parameters at above 6 different levels separately.

Tentative List of the Stations:-

S. No.	Station	S. No.	Station
1	Amritsar	6	Trichy
2	Bareilly	7	Deesa
3	Balasore	8	Bikaner
4	Bhagalpur	9	Allahabad
5	Veraval	10	Raipur