

Tender for 50 Nos. of Seismic Data Acquisition Systems (DASs)

[Supply, Installation & Commissioning of 50 numbers of 6-channel Seismic Data Acquisition Systems (DASs), its accessories and associated application software for National Seismological Network]

[National Center for Seismology]

[JULY 2020]

SECTION – I

GENERAL INSTRUCTIONS

1. Introduction:

1.1 The Purchaser has issued this Tender Enquiry (TE) document for purchase of goods/stores/articles and related services as mentioned in Section “List of requirements / Technical specifications”, which also indicates, inter alia, the required stores, delivery schedule, terms and place of delivery etc. This section “General Instructions to Bidders” (GIB) provides the relevant information as well as instructions to assist the prospective Bidders in preparation and submission of tenders.

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

1.3 Whenever there is any conflict between the provision in the “General Instructions to Bidders” with regard to specific item/para/clause under this section and that in the “RFP”, the provision contained in the RFP shall have an over-riding effect and treated as final. Any special instructions as per “RFP” section will also apply for this purchase. The conditions (like qualification criteria, maintenance services, penalty charges, etc.) mentioned in “RFP” will also apply for this purchase.

2. Tender Language: The tender submitted by the Bidder and all subsequent correspondence and documents relating to the tender exchanged between the Bidder and the purchaser shall be written in English language.

3. Tender Currency: The bidder should quote the price in in INR (₹) only. No other currency is accepted.

4. Eligible Goods and services: All goods and related services to be supplied by Indian firms only.

5. Tender Validity :

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

5.2 Purchaser’s reserves the right to accept any tender and to reject any or all tenders.

5.3 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 or Bidders.

6. Tendering Expenses: The Bidder shall bear all the costs and expenditure incurred and/or to be incurred by them in preparation, and uploading their tender including attending the pre-bid conference and/ or arranging demonstration of Services or Presentations before the Committee that may be deemed necessary by the Purchaser.

7. Pre-bid Meeting:

7.1 Pre-bid conference shall be held as per NIT schedule so as to provide an opportunity to the participating bidders to interact with NCS with regard to various tender provisions/clauses, before the bids are submitted. Bidders should depute their authorized representative for pre-bid meeting. In case, due to the points/doubts raised by the prospective Bidders, the RFP needs to be modified, and then the same will be considered for modification. After pre-bid conference, tender conditions will be frozen. No change will be permissible after pre-bid meeting. Clarification needed, if any, may be sent before commencement of pre-bid meeting. No reply in this regard shall be sent to individual Bidders. Pre-Bid minutes shall be uploaded on e-Procurement portal <https://eprocure.gov.in/cppp/> and NCS website <http://seismo.gov.in/content/tenders>

7.2 NCS shall hold a pre-bid meeting with the prospective Bidders as per Notice Inviting Tender(NIT) details. Queries received in writing, from the Bidders, prior to the pre-bid meeting only shall be addressed. The queries can be sent to NCS through email at g.suresh@imd.gov.in, rk64.singh@imd.gov.in and/ or faxed on 91-11-24619943.

7.3 Conditional tenders shall not be accepted on any ground and shall be rejected straightway. If any clarification is required, the same should be obtained on or before pre-bid meeting. No correspondence will be entertained after pre-bid meeting.

7.4 **Regular visit of website:** Prospective Bidders are advised to visit e-Procurement portal <https://eprocure.gov.in/cppp/> or NCS website <http://seismo.gov.in/content/tenders> on regular basis for any change in NIT schedule, amendment / corrigendum in Tender Document including technical requirement and pre-bid minutes etc.

8. Document comprising the tender:

8.1 Tender Enquiry Document seeks quotation in two parts by following **TWO Bid System**. The First Part will be known as '**Techno-Commercial Bid**', and the Second Part will be known as '**Price Bid**' (Details given below)

8.2 **Techno-Commercial Bid(Un-priced Bid)**: comprising of following

8.2.1 Checklist section (Annexure-1) properly filled and signed.

8.2.2 Earnest Money Deposit (**EMD**) (BG or FDR or MSME certificate for EMD exemption)

8.2.3 Technical proposal.

8.2.4 Compliance statement/table.

8.2.5 A copy of the blank price bid as per **Annexure 6**. The list of deliverables (un-priced) **with make & model** etc. as per **Annexure 6** should also be submitted along with the technical bid.

8.2.6 Documentary evidence for eligibility as per Clause 54.

8.2.7 Tender Acceptance Letter (**Annexure-2**) Duly Stamped & Signed. (Bidder has to agree to accept all the terms & conditions of the Tender Enquiry Document).

8.2.8 The bidder, who quotes for goods manufactured by some other manufacturer of seismic equipment i.e., DAS, shall furnish Manufacturer's Authorization Form. (**Annexure-3**)

8.2.9 Authorization Letter from the foreign principal for authorizing Indian Representative to sign and submit the tender document on behalf of foreign principal.

8.2.10 All the above documents must be enclosed with technical bids, otherwise bids may be either ignored or not considered for technical evaluation.

8.3 PRICE BID:

8.3.1 All the pages of the price bid should be numbered, indexed and duly signed and stamped by the authorized signatory.

8.3.2 Prices should be quoted as per Price Schedule Format (**Annexure-6**). 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.

8.3.3 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".

- 8.3.4 Indian vendor shall quote prices on F.O.R destination (sites of consignee) basis. Payment will be made in Indian Rupees only. No payment will be made in foreign currency.
- 8.3.5 The bidder supplying indigenous goods or already imported goods shall quote only in Indian Rupees.
- 8.3.6 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.
- 8.3.7 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
- 8.3.8 The Supplier shall bear all the taxes (IGST/SGST/CGST/Income-tax/or any other taxes) levied by the state/central government, as per the rates prevailing at the time of undertaking the job in accordance with the Income-tax in India.
- 8.3.9 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.
- 8.3.10 Foreign bidders are disallowed to directly submit their bid documents directly to quote in foreign currency as per notification published by Ministry of Finance, Govt of India on 15-05-2020.
- 8.3.11 Hence bids from Indian bidders in single Indian currency (INR) are acceptable. Bids from foreign bidder are not acceptable and shall be rejected.
- 8.3.12 Statutory levies, taxes and duties etc., if any, chargeable on the goods are on actual basis as applicable.

8.4 **The Bidder** 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

9. **Preparation of Tender:** A bidder shall complete all the documents of its tender, duly signed and stamped. The bidder shall scan all the documents and save them in PDF format.
10. **Submission of Tender:** The bidders shall upload the soft copy of the tenders (In PDF Format) on CPP Portal within the specified date/time of submission of the tender as mentioned in the NIT document.
11. **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.

12. Opening of Tenders: The purchaser shall open the tenders after the specified date/time and at the place as indicated in the NIT document. In case the specified date of tender opening falls on a holiday (or subsequently declared a closed day for the purchaser), then the tenders will be opened at the appointed time and place on the next working day. The bids downloaded by this office from CPP Portal will be available for the bidders automatically. The bidders need not come to this office as they can also download the opened bids directly from the CPP Portal. In case the bidders wish to come to this office during tender opening, they must bring an Authorization Certificate from their respective firms. The process of opening of the tenders in Two Bid System is as follows.

12.1 First Stage: The Technical Bids are to be opened in the first stage on/after the prescribed date and time. These Bids are scrutinized and evaluated by Technical Evaluation Committee (**TEC**) constituted by the competent authority with reference to parameters prescribed in the Tender Enquiry Document. The bidders whose Technical Bids are found responsive and acceptable will pass on to the second stage. The details of the bidders, whose Technical bids have been accepted, will be uploaded on the CPP Portal along with the Report of TEC. The date of opening of Financial/Price Bids will also be published.

12.2 Second Stage: In the Second Stage, the Price Bids of technically qualified bids only will be opened. The Price Bids will be scrutinized by Financial Evaluation Committee (**FEC**) constituted by the competent authority. The report of the FEC will decide the lowest bidder. This report will also be uploaded on CPP Portal. Supply Order will then be issued to the lowest bidder.

13. Scrutiny and Evaluation of Tenders

13.1 Unresponsive bids: The tenders 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 tenders are liable to be treated as non-responsive and will be summarily ignored if following documents are not provided along with technical bids.

13.1.1 Checklist (**Annexure-1**).

13.1.2 Tender Acceptance Letter (**Annexure-2**) is not duly signed and stamped. (Bidder has to agree to accept all the terms & conditions of the Tender Enquiry Document).

13.1.3 Tender Validity Period is shorter than the required period.

13.1.4 Required EMD (Amount, Validity, etc.)/ Exemption document have not been provided.

13.1.5 Bidder has not agreed to deposit the required performance security (In case of allotment of the tender).

13.1.6 Copy of agreement of Indian agent with its foreign principal with the precise relationship between them and nature of services which would be available from Indian agent. Copy of this agreement must be attached with the tender.

13.1.7 By any means/reason, the in-complete bid uploaded on e-procure.gov.in shall also be treated as Unresponsive.

13.2 Technical Evaluation:

13.2.1 A duly constituted Technical Evaluation Committee (TEC) will first select Bidders on the basis of eligibility criteria of this tender. The Bids conforming to the eligibility criterion will be considered for further evaluation.

13.2.2 If during the preliminary examination, the purchaser find any minor discrepancy and/or irregularity and/or non-conformity/ or no-clarity on specific item offered, in a tender, the purchaser may waive 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 Bidder. 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 will be liable to be ignored.

13.2.3 Technical Evaluation Committee (TEC) will shortlist Technical Bids on the basis of technical parameters, offered technical solutions/products and their features. The TEC can make any enquiry/seek clarification from the Bidders on the offered Service Solution. In such a situation, the Bidder shall extend full co-operation. The Bidders can also be asked to give technical presentation/discussion on the offered solution, in a short period notice, as such the **Bidders** have to be ready for the same.

13.2.4 During the detailed Technical Presentations/Discussions, Bidder has to ensure availability of appropriate specialist, along with required documentation for interacting with Technical Evaluation Committee. If the required specialist along

with proper documentation is not made available by Bidders, then such defaulting Bidders are likely to be debarred from further tender evaluation process.

13.2.5 Compliance statement in the form of '**Complied**' or '**Not Complied**' shall be given against each term and specification mentioned in the tender document. The compliance statement should contain the signature of the authorized person and the seal of the company. Any deviation should be mentioned / explained by the Bidder in Compliance Statement. The compliance statements should be supported by authentic documentation. Deviations in lower side will not be accepted.

13.2.6 No enquiry shall be made by the Bidder(s) during the course of evaluation of the tender, after opening of bid, till final decision is conveyed to the successful Bidder(s).

13.2.7 The names of technically short listed Bidders will be announced to only those Bidders whose bids will qualify for opening of the Price/Financial/Commercial Bids.

13.3 Financial Evaluation: In the second stage, the Price Bids of technically qualified bidders only shall be opened for further scrutiny and evaluation.

13.3.1 The Financial Bids of only those Bidders short-listed from the Technical Bids by TEC will be opened in the presence of their representatives on a specified date and time to be intimated to the respective Bidders, and the same will be evaluated by a duly constituted Finance Evaluation Committee (FEC).

13.3.2 No enquiry shall be made by the Bidder(s) during the course of evaluation of the tender, after opening of bid, till final decision is conveyed to the successful Bidder(s). However, the Committee/its authorized representative and office of NCS can make any enquiry/seek clarification from the Bidders, which the Bidders must furnish within the stipulated time else bid of such defaulting Bidders will be rejected.

13.3.3 If there is a discrepancy between the unit price and total price, The Unit Price shall prevail.

13.3.4 The ultimate/landing cost in respect of store is arrived at by considering following elements:

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

- 14. 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.
- 15. Inspection, Testing and Site Acceptance Test (SAT):** Purchaser will not undertake any Pre-dispatch inspection for imported stores. The equipment will be accepted subject to final inspection and test at the field sites.

SECTION – II

GENERAL CONDITIONS

- 16.** Whenever there is any conflict between the provision in the General Contract Terms (GCT) specified in the present and earlier sections and that in the section “RFP”, the provision contained in the section “RFP” shall prevail and have an over-riding effect, i.e. The details given in the RFP will be treated as final.
- 17.** Any Special instructions or conditions like delivery schedule, mode of delivery & sites of delivery etc., mentioned in “RFP” section will also be applicable
- 18. Eligible Bidders :** The Firms in followings categories are eligible to participate in tender subject to fulfill other criteria in technical requirement section.
- 18.1 Indian Manufacturers of the required stores. OR
- 18.2 Authorized Indian representative of OEM.
- 18.3 For Clause 18.2, the Indian bidder shall have to submit authorization certificate as per Annexure-3 from OEM that they will provide service support after sale. Copy of the valid agreement between Indian firm and OEM is required to be submitted as per Annexure-10.
- 19. Alternative Tenders:** Alternative Tenders are not permitted.
- 20. Validity of Tender:**The tenders shall remain valid for acceptance for a period of 180 days (One Hundred Eighty Days) for Technical Bid and 240 days (Two Hundred Forty Days) for EMD after the date of opening of tender as prescribed in the TE document.
- 21. 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).
- 22. Earnest Money Deposit (EMD):**
- 22.1 The Bidder shall furnish along with its tender, Earnest Money for an amount as shown in the tender notice.
- 22.2 The bidders who are registered on Tender submission date with National Small Industries Corporation, New Delhi, shall be eligible for exemption from EMD. Micro and Small

Enterprises specified by Ministry of Micro, Small & Medium Enterprises (MSME) are exempted from the submission of Earnest Money Deposit (EMD).

22.3 EMD of an amount as mentioned in Notice Inviting tender (NIT) has to be submitted through **Bank Guarantee** of any Scheduled Commercial Bank drawn in favour of “DDO, National Centre for Seismology, New Delhi”, physically **before 1500 hrs before the date/time mentioned in NIT. Otherwise, bid will be rejected. However, the scanned copy of FDR/BG along with the Bid must be uploaded electronically on e-Procurement site.**

22.4 The earnest money shall be valid for a period of sixty (60) days beyond the validity period of the tender.

23. Refund of EMD:

23.1 In the case of those Bidders who fail to qualify the eligibility criteria, the Earnest Money Deposit (EMD) will be refunded without any interest accrued immediately thereafter.

23.2 In the case of those Bidders whose technical bids do not qualify, the EMD will be refunded without any interest accrued within one month of the acceptance of TEC's recommendations.

23.3 In the case of those Bidders whose technical bids have qualified but are not selected, the EMD will be refunded without any interest accrued within one month of the acceptance of Financial Evaluation Committee's (FEC) recommendations.

23.4 Bidder whose bid was accepted and selected, the EMD will be refunded without any interest accrued after the submission of Performance Security.

23.5 Application of request for refund of EMD is given at **Annexure-5**

23.6 The bidders have to submit pre receipt for obtaining their EMD in the **FORM GAR 43D (Annexure-5)** in duplicate with original signatures. One form should be affixed with revenue stamp.

23.7 The clause “Encashment/release of FDR/BG requires clearance certificate from Purchaser i:e Director, National Centre for Seismology, New Delhi” must be mentioned in issued FDR/BG by Bank.

24. Forfeit of EMD:

24.1 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 the purchaser.

24.2 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 mentioned in clause 25.5.

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

25. Performance Security:

25.1 Successful Bidder shall submit performance security within thirty (30) days from date of issue 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.

25.2 Performance security has to be submitted by the successful bidder, irrespective of its registration with NSIC/MSME. Performance security is not relaxed to any supplier.

25.3 The purchaser may consider annulment/cancellation of supply order/ award of contract if performance security not received in stipulated time.

25.4 There is no relaxation/exemption in submitting of Performance Security.

25.5 The supplier shall furnish performance security to the purchaser for an amount equal to ten percent (10%) of the total value of the order, valid up to sixty (60) days beyond the warranty period or successful completion of all contractual obligation including warranty period whichever is later. The format of bank guarantee to be submitted as performance security is given in **Annexure-4**.

25.6 Performance Security shall be furnished by bidder for all the component including indigenous components to be taken representatives of foreign principals/OEM s.

25.7 Bank Guarantee issued from the foreign banks must be authenticated by State Bank of India (SBI) or any other Nationalized Bank of India.

25.8 Firms, registered with NSIC/ MSME, quoting on behalf of their foreign principal shall be responsible for furnishing performance security for the entire project tenure.

25.9 The successful Bidder will have to deposit Performance Security within specified time limit given above, equivalent to 10% (Ten Percent) of the total value of the work order, in the form of FDR or Bank Guarantee from a Nationalized/ Scheduled Commercial Bank in favour of "**DDO, National Centre for Seismology, New Delhi**". If the Security Deposit is not paid within time specified, the Earnest Money Deposit of the Bidder shall be forfeited. No interest will be payable for "Performance Security".

- 25.10 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.
- 25.11 It shall be in any one of the forms namely Fixed Deposit Receipt or Bank Guarantee drawn/issued by a 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 may submit in the form of Bank Guarantee. Bank Guarantee issued from the foreign banks must be authenticated by STATE BANK OF INDIA or any other Nationalized Bank of India.
- 25.12 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 warranty obligations & after receipt of performance security for CAMC (if applicable).
- 25.13 In the event of non-providing the services, the Performance Security shall be forfeited to the extent the services are not provided. Further, if the purchaser has to get the services from any other Bidder because of failure to provide in full or part by the successful Bidder, the difference in payment may be made from such amount. Also, the amount retained towards "Performance Security" is subject to forfeiture if it is found at any point of time during the period of contract that the services offered by the supplier are not in conformity to the accepted specifications mentioned in RFP by the purchaser.
- 25.14 In case the Bidder backs out of the contract in mid stream without explicit consent of the NCS, the PBG will stand forfeited.
- 25.15 On completion of the Project, the Performance Security without any interest accrued shall be released after ascertaining that satisfactory support that has been provided during AMC period. In case, it is found that appropriate satisfactory support has not been provided by the Bidder, NCS will ensure that the prescribed penalty as per clause 29 for the default in service has been realized or shall be recovered from the Bidder out of already due payments.

26. Terms of Delivery: Goods shall be delivered by the supplier in accordance with the terms of delivery specified in the Supply Order. 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.

27. Delivery Schedule: As per RFP clause no.56

28. ON-Site Warranty: On-site Warranty for a period of 24 months from the date of site acceptance of the systems at respective sites

28.1 Other condition under warranty clause of “RFP” under clause no.59 shall also be applicable.

29. Penalty/Liquidity Damage:

29.1 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.

29.2 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 1% (one 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 will apply both of the following:

29.2.1 Forfeiture of its performance security and

29.2.2 Termination of the contract for default.

29.3 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 directly in writing about these delays on part of NCS.

30. 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 twenty five percent ($\pm 25\%$) till the placement of supply order without any change in the terms & conditions and prices quoted by the bidders.

31. 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.

32. Taxes and Duties in India:

32.1 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 indenter /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.

32.2 Supply of Road Permits by the 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: -

32.2.1 The supplier shall request the 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 consignee 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.

32.2.2 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.

32.2.3 The supplier shall not be held responsible for any delay in supply due to non-supply/delayed supply of Road permit.

32.3 **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.

33. Terms and Mode of Payments:

33.1 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 the payment terms of the Supply Order if not specified elsewhere in the document.

33.2 70% payment shall be made to domestic supplier in Indian currency on receipt of entire goods/stores at sites (37 field sites + NCS HQ, New Delhi) and 30% on Test and Acceptance by consignee. No payment shall be made for partial delivery. The following documents shall be submitted:

33.2.1 Three copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount.

33.2.2 Consignee Receipt Certificate in original issued by the authorized representative of the consignee.

33.2.3 Copies of delivery challan identifying contents of each package.

33.2.4 Inspection certificate by the nominated Inspection agency, if any.

33.2.5 Final Acceptance Report from consignee.

33.3 100% payments towards services like Training, SAT, Installation & commissioning charges etc. if any, after their executions and completions. If any component is not delivered or executed, the corresponding charges will be deducted during the release of final payment.

33.4 Necessary documents must be submitted for the release of payments.

33.5 The bidder shall submit detailed particulars of his bank account in this office, like: Account Number, Bank Name, Branch Name, Address, IFSC code, MICR No. and Telephone No.; etc.

34. Termination of tender:

34.1 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.

34.2 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.

34.3 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.

34.4 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

35. Arbitration

35.1 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.

35.2 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, 1995 and any amendments thereto. 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.

35.3 **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.

36. Force Majeure: Neither NCS nor Bidder shall be liable to the other for any delay in or failure of performance of their respective obligations under this contract caused by occurrence beyond the control of NCS or Bidder because of fire, floods, power, acts of God, acts of public enemy, wars, insurrection, riots, strikes, lockouts, sabotage or any agencies thereof or any local authority or any compliance therewith, or any other causes contingencies or circumstances similar to the above. Either party shall promptly but not later than thirty (30) days thereafter, notify the other to the commencement and cessation of such contingency, and if such contingency continues beyond six months, both parties agree to discuss and agree upon an equitable solution for termination of this agreement, or otherwise decide the further course of action to be adopted.

37. 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 (National Center for Seismology) or it will adjusted from their bills, if the contract has already been concluded

SECTION – III

SPECIAL CONDITIONS

OF TENDER (SCT)

SECTION – III

SPECIAL CONDITIONS OF TENDER (SCT)

38. 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.
39. In this tender, the participating Micro, Small and Medium Enterprises (MSMEs) quoting price within price band of L1+25% (Twenty Five percent) shall also be allowed to supply up to 50% (Fifty percent) portion of total tendered value by bringing down their price to L1 price in a situation where L1 price is quoted by a firm other than an MSME. In case there are two or more MSME firms within such price band, then this 50% (Fifty percent) quantity is to be distributed proportionately among these bidders (As decided by the competent authority of this office).
40. Within this 50% (Fifty Percent) quantity, a purchase preference of 4% (Four percent) i.e. 4% (Four percent) out of 50% (Fifty 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. The final distribution of the supply order shall be decided by the competent authority of this office.
41. 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.
42. 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 The Purchaser has issued this Tender Enquiry(TE)document for purchase of goods/stores/articles and related services as mentioned in Section “List of requirements / Technical specifications”, which also indicates, inter alia, the required stores, delivery schedule, terms and place of delivery etc. This section “General Instructions to Bidders” (GIB) provides the relevant information as well as instructions to assist the prospective Bidders in preparation and submission of tenders.

43. NCS is following and abides with the Public Procurement (Preference to Make in India), Order 2017, DIPP, MoCI Order No. P-46021/2/2017-B.E.II dated 15th June 2017 and subsequent amendments to the order. Accordingly preference will be given to the Make in India products while evaluating the bids, however, it is the sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India product along with respective documentary evidence as stipulated in the aforesaid order in the technical bid itself.

Section IV

Request for Proposal (RFP)

**Supply, Installation & Commissioning of
Seismic Data Acquisition System (DASs), its accessories
and associated application software
for**

NATIONAL SEISMOLOGICAL NETWORK

- 44. Introduction:** National Centre for Seismology (NCS) is the nodal agency of Government of India (GoI) for monitoring and reporting earthquake activity in the country on a 24X7 basis. NCS is presently maintaining the National Seismological Network (NSN) consisting of a total of 115 seismological stations spread over the entire country. Some of these stations have old/outdated and defective Data Acquisition System; with this invitation of tender this office is intended to replace outdated and faulty DASs at 37 existing stations of National Seismological Network. Among 37 stations, 20 stations belongs to North-East (NE) Telemetry Network and remaining 17 stations are part of Real Time Seismic Monitoring Network (RTSMN). The 20 field station NE telemetry network transfer data simultaneously through VSAT network to two Central Receiving Stations (CRSs) located at Central Seismological Observatory (CSO), Shillong and NCS HQ, Hyderabad. Similarly, 17 field stations of RTSMN transfers continuous recorded data to two CRSs located at NCS HQ, New Delhi and INCOIS Hyderabad, The list of field stations of NE Telemetry Network and RTSMN are given in **Annexure-9**.
- 45. Purpose of RFP:** This RFP is an invitation for potential bidders to supply the 50 nos. of 6-channel seismic Data Acquisition System(DAS) with associated accessories and application software. The real time continuous data need to be made available simultaneously at two different locations at two CRSs at New Delhi and CSO Shillong for 20 stations under NE Telemetry Network; similarly for 17 stations under RTSMN, the continuous data parallelly at two CRSs at New Delhi and INCOIS Hyderabad. The list of field stations where DAS needs to be replaced is enclosed as **Annexure-9**. Bidder has to integrate continuous real-time in-coming ground motion data from all the replaced DASs to existing CRS at NCS New Delhi (37 stations), CSO Shillong (20 stations), and INCOIS Hyderabad (17 stations) .
- 46. Scope of the tender:** The scope of the work under the subject proposal includes:
- 46.1 Replacement of DASs at **37 field stations (20 field stations of NE Telemetry Network + 17 field stations of RTSMN)** in various parts of India, and their data integration in CRS at New Delhi, CSO Shillong, INCOIS Hyderabad. Required accessories like GPS antenna with cable, Ethernet cable to connect DAS to existing VSAT, power cable to connect to battery and other required accessories to commission the DAS.
- 46.2 Supply of Acquisition software for receiving continuous data from 300 channels (50 DAS x 6 channels) parallelly at NCS HQ, INCOIS, Hyderabad and CSO Shillong. Required associated software at each location of CRS, for station monitoring and downloading of data from continuous ring-buffers as per user criteria.

46.3 Supply of sensor-cables for 37 field sites, to connect existing Broadband velocity and accelerometer sensor to the 6-channel-DAS. The make and model of existing sensors at each of 37 field sites are given at **Annexure-9**

46.4 External DC-DC convertor (50 nos.).

46.5 Supply and Installation of Dry Storage Battery (12V 100AH) for powering the DAS at each of 37 field sites.

46.6 Delivery, Installation and commissioning of DAS at 37 locations.

46.7 Spares and accessories.

46.8 ON-SITE comprehensive warranty of 24 months for the DAS and other supplied accessories including batteries (12V 100AH) supplied at each site.

46.9 Supply of Optional items, if Purchaser desires.

47. Technical Specifications of Data Acquisition System(DAS) - 50 numbers [37 for sites in RTSMN and NE telemetry + 13 at NCS HQ]:

47.1	Nnumber of Channels	Six channel (3 each for broadband seismometer and accelerometer)
47.2	Dynamic range	At least 142 dB measured at 100 sps
47.3	ADC resolution	24 bit or more, independent digitizer for each channel
47.4	Input Range	Should match to the outputs of (a) Broadband seismometer and (b) Accelerometers (details given at Annexure-9)
47.5	Channel to channel skew	a) Zero- Simultaneous sampling of all channels. b) Immune to electromagnetic interference.
47.6	Sampling rate	a) User- selectable 1,20,50,100 and 200 sps per channel in different streams both in continuous and trigger modes simultaneously as per user requirements. b) Provision to select different sampling rates for weak motion and strong motion channels.
47.7	Filter	Linear phase digital FIR filter.
47.8	Storage	a. At least 8 GB Internal b. At least 32 GB removable memory card or USB drive.
47.9	Recording Format	Standard seismological format compatible to Windows/UNIX with proven compression technique. The recording data format should preferable be in mSEED or SEED format.

47.10	GPS Timing System	<ul style="list-style-type: none"> a) UTC timed with digitally controlled precision VCXO clock phase locked to GPS b) Timing accuracy less than 0.1mSec when GPS is locked c) Free running TCXO accuracy of 1 ppm over wide temperature range. d) GPS receiver electronic circuit should be inside the DAS with Antenna exposed outside. e) Antenna cable length should be 15 m or more. f) Antenna should be enclosed in water tight and can work effectively in extreme climatic condition. g) Antenna mounting rod and its accessories
47.11	Sensor control	<ul style="list-style-type: none"> a) Sensor calibration facility for both BB seismometer and Accelerometer b) Sensor mass position monitoring for BB seismometer. c) Sensor mass centering on command for BB seismometer.
47.12	State of Health of each Channel	Provision for checking state of health information like sensor mass position, temperature voltage, condition of GPS time lock etc. locally and remotely.
47.13	Status display	Status display indicators for power, data acquisition, SOH, GPS etc. should be provided.
47.14	Gain	Hardware gain selection through software for 1 and 2
47.15	Data acquisition Mode	Both continuous and trigger mode
47.16	Trigger	User selectable, independently for each channel at different sampling rate based on triggering criteria as STA/LTA or level etc.
47.17	Communication	<ul style="list-style-type: none"> a) In built communication interface circuitry for provision of remote data acquisition and State-of-Health in near real time mode through V-SAT and GPRS modem. b) Suitable interface (with cable) for connecting to computer/ laptop for parameter setting and data downloading.

47.18	Transmission setting	<p>Should have facility to select transmission of data to remote location in the following options:</p> <ul style="list-style-type: none"> a) continuous mode transmission for BB data b) continuous or trigger mode transmission of SMA data as per user configuration
47.19	VSAT connectivity	<ul style="list-style-type: none"> a) Ethernet port (10/100 Base-T) supporting TCP/IP and UDP/IP b) Compression of data before transferring to VSAT. c) Continuous and trigger both. (6 channels) d) Duplex communication between field and both hubs e) Extensive error correction f) Support for off-the-shelf communication equipment c) DAS should be supplied with 2m cable for connecting to VSAT-modem from the NET/Ethernet port of DAS.
47.20	Power Supply	<ul style="list-style-type: none"> a) Supply voltage 10-15Volts through solar panel activated maintenance free batteries or battery charger. b) Power consumption of DAS less than 5W at 12V DC recording 6 channels at 100 SPS. c) Low battery voltage and surge protection. d) DAS shall resume data acquisition and transmission automatically when the power is restored. e) DAS should be supplied with 2m cable for connecting to battery (12V 100AH) through DC-DC Convertor.
47.21	Dc-Dc Convertor (external device)	<p>A DC-DC convertor between DAS and Battery must be provided to safeguard from</p> <ul style="list-style-type: none"> a) Spurious voltage b) Low Voltage c) Over voltage charging of batteries, d) This DC-DC Convertor is a separate device. It is an external device to DAS and Solar-charge controller.
47.22	Operating temperature and humidity range	<ul style="list-style-type: none"> a) Operating Temperature -10 deg to 50 deg C b) Humidity Upto 100% RH

47.23	Environment	c) All the indoor units should work in typical tropical environment conditions and should work without air conditioning.
47.24	Housing	GPS and DAS modules should be enclosed in a weather and shock-proof sealed enclosures.
47.25	Electrical Grounding	The DAS should properly be electrical grounded while installation at the field station, with the existing available electrical-ground.

48. Sensor Cables:

Details of sensors installed at each field station is given at Annexure-9.

- 48.1 Sensor cables (2m in length) between DAS and broadband seismometer (Make: Nanometrics, Model no. Trillium-240) -20 nos.
- 48.2 Sensor cables (2m in length) between DAS and Accelerometer (Make: Metrozet, Model no.TSA-100S) -20 nos.
- 48.3 Sensor cables (2m in length) between DAS and host-box of broadband seismometer (Make: Strekeisen, Model no. STS-2) – 5nos.
- 48.4 Sensor cables (2m in length) compatible with broadband seismometer (Make: Reftek, Model no. 151-120A) – 25 nos.
- 48.5 Sensor cables (2m in length) compatible with Accelerometer (Make: Reftek, Model no.131A-02/3) – 25 nos.
- 48.6 Sensor cables (2m in length) compatible with Accelerometer (Make: Gurlap, UK, Model No. CMG-5T) -5 nos.
- 48.7 The Purchaser reserve the right to decrease the quantity to NIL or purchase a few required cables under this section depending upon the requirement at the time of issue of Supply order. However, Bidder should quote for all types of cables as per quantity mentioned above as a part of commercial offer.

49. Batteries -37 nos.

- 49.1 Each of existing 37 field stations have already been equipped with Solar Panels, Solar Charge Controller and float-type battery charger. Each station should be supplied with a single sealed Maintenance Free (MF) battery (rating at least 12V 100AH). This battery is

required to be installed with the above existing solar charge controller, solar panel as well as through float-type battery charger connected to 230V AC main power supply.

49.2 For 20 sites in NE Telemetry Network, battery is to be replaced on-buy-back arrangement of existing old battery.

50. Software Requirement

50.1 Software Requirement:

Firmware of DAS should support

50.1.1 Real time ground motion data acquisition (weak motion and acceleration data) in DAS including State of Health monitoring and GPS data.

50.1.2 Transmission of recorded data to central station in near real time using VSAT communication facilities in continuous mode /trigger mode/ or both as per user selected criteria.

50.1.3 Restoration of automatic data acquisition in DAS on assumption of power in case of power failure.

50.1.4 Capability to serve the request from CRS for re-transmission of data in case of real time data transmission break/failure.

50.1.5 Provision to supply off-line waveform data transfer of any segment from the ring buffer on manual request from CRS.

50.1.6 In case of communication failure, automatic request/transfer for the pending data from the point at which it was executing just before the failure.

50.2 Application Software for Central Receiving Stations (CRSs) at CSO, Shillong, INCOIS Hyderabad, and NCS HQ, New Delhi

50.2.1 There are three numbers of CRSs. The 20-field station North-east telemetry data is received simultaneously at Shillong and NCS Head quarters (HQ), New Delhi, whereas 17-field station data is received at INCOIS, Hyderabad and NCS HQ, New Delhi. NCS HQ receive data from all field stations of RTSMN and NE telemetry Network.

50.2.2 The required Computer Hardware towards continuous data acquisition will be provided by the Purchaser at each CRS. The purchaser prefers that the application software to be supplied to work in either Windows OS or latest Linux/Ubuntu

OS. In this connection, the Vendor should provide the details of computer hardware and OS required in their bid document for each CRS.

50.2.3 The application software to be supplied at each CRS should meet the following requirements:

50.2.3.1 The Acquisition software must support SEEDLINK protocol to transfer the continuous data to Earthquake Auto location software SeisComp3

50.2.3.2 Sharing of continuous data from one acquisition Server to another remote acquisition server.

50.2.3.3 CRS at Shillong will receive 20 station data from NE telemetry network. Hence acquisition software (at Shillong) should capable to receive data from 150 channels. The ring buffer memory size or store size should be more than 300GB.

50.2.3.4 CRS at INCOIS will receive 17 station data from RTSMN. Hence acquisition software (at INCOIS, Hyderabad) should capable to receive data from 150 channels. The ring buffer memory size or store size should be more than 300GB.

50.2.3.5 CRS at NCS HQ, New Delhi will receive data from all 37 stations. Hence acquisition software (at NCS HQ, New Delhi) should capable to receive data from 300 channels. The ring buffer memory size or store size should be more than 600GB.

50.2.3.6 Application software utilities for parameter setting, On-site control panel, sensor calibration, data retrieval as per user criteria from each CRS.

50.2.3.7 The Data acquisition software to fetch continuous data from all field sites to central site.

50.2.3.8 In the event of communication link failure, all the past data (including from the memory card or USB disk of DAS) from field site should be retrieved automatically at CRS, once the communication link is restored. The archive at CRS should not have any data gaps.

50.2.3.9 Display of incoming continuous data from all field stations. The Waveform-display-software should display Station code assigned by the user, instead of DAS serial number.

- 50.2.3.10 Software to configure and setting of station parameters in the DAS at field site through NoteBook Computer and also from Central Receiving Station through VSAT or GPRS modem.
- 50.2.3.11 Bidder should provide GUI based Application software to monitor the GPS lock status, co-ordinates of field station, battery voltage, broadband sensor mass position, and other State of Health (SoH) parameters of each field station from CRS.
- 50.2.3.12 To find out the details of data gaps in the ring buffer / archive memory in respect of each station in the Acquisition computer of CRS.
- 50.2.3.13 Old recorded data plotting and display software from the ring buffer memory or Archive at CRS.

51 Spare and Accessories

- 51.2 GPS antenna with cable of length 15m for DAS (5no.s)
- 51.3 Power cables from DAS to Battery (10 nos.)
- 51.4 Data/Ethernet cables (LAN port of DAS to VSAT-Modem) (10 nos.)
- 51.5 Memory card or USB memory disk (same capacity as supplied in DAS)– 50 nos.
- 51.6 Internal battery installed with DAS (if any) – 20 nos.
- 51.7 DC-DC convertor – 5 nos.

52 Optional Items

- 52.1 The Bidder may use the same existing broad-band sensor cable and Accelerometer cable at each of 37 field sites for connecting to DAS, by replacing the connector of the broadband and accelerometer sensor cables at the DAS-end, if purchaser desires so. In such case, the bidder should replace connector at the DAS-end of the existing sensor cable at the field site itself. The Bidder is not allowed to transport or carry the sensor cables to any factory-site of Bidder to replace the connectors of sensor cables.
- 52.2 40 pairs of connectors of sensor cable (for BBS and Accelerometer) at DAS end.
- 52.3 The Bidder should provide detailed break-up of cost of each item specified in the optional items, for evaluation of the bid as a part of commercial bid offer. The prices of Optional Items under this clause-52 would not be added/ included in the 'Grand Total of the Bid Price' for deciding L1, but the bidder should quote prices for these, failing which the bid will be rejected.

RFP General Terms and Conditions

53 Whenever there is any conflict between the provision in the General Contract Terms (GCT) specified in the earlier sections and that in this RFP section, the provision contained in this section of "RFP" shall prevail and have an over-riding effect, i.e. the details given in the RFP (Section IV) will be treated as final.

54 Qualification Criteria

54.1 The bidder should be **an Indian representative of OEM (Original Equipment Manufacturer) of seismic equipments** (Broadband Seismometer, Strong Motion Accelerometer **and** Data Acquisition System). This claim must be accompanied by supporting documents as evidence.

54.2 The bidder should furnish the **information on past supplies as Indian agent** (during last **three years** as on July-2020) of seismic and associated equipments and satisfactory performance in the Proforma under **Annexure-7**.

54.3 Bid submitted shall **also include the following information**

54.3.1 Copies of original documents defining the constitution or legal status, place of registration and principle place of business of the company or firm or partnership, etc.

54.3.2 The bidder should furnish a brief write-up supported by adequate data, explaining the available experience (both technical and financial) for supply of the required equipments within the stipulated time frame of completion after meeting all their current commitments.

54.3.3 Reports on financial standing of the Bidder such as, profit and loss statements, balance sheets and auditor's report for the past three years, bankers certificates etc.

54.3.4 Notwithstanding anything stated above, the Purchaser reserves the right to assess Bidder's capability and capacity to perform the contract, should circumstances warrant such an assessment in the overall interest of the purchaser.

54.3.5 The bidder firm should not have run into loss for a period of more than one year over a period of last 3 years ending 31.03.2020 as the case may be. This should be certified by the Chartered Accountant/ Competent authority.

55 Installation

- 55.1 The work requires supply of seismic Data Acquisition system (DASs) equipment and other items as per specification, their installation at field stations and data integration with three CRSs. The bidder should **submit tentative delivery and installation schedule** for all the stations.
- 55.2 The Bidder will be **responsible for all unpacking**, assembling, wiring, installations, cabling between equipment hardware units and connecting to power supplies, etc.
- 55.3 All the systems shall be installed within three (3) months from the date of delivery of stores at respective sites.
- 55.4 The Bidder will **provide all cables and connectors** required for the installation and integration of Sensors, batteries, etc., which may be spread in different rooms of the field observatories.
- 55.5 **All the power connectors should plug into the Indian-type electric sockets.**

56 Delivery schedule:

- 56.1 All the stores should be delivered and installed at respective field stations and CRS locations in **4 (four) months** from the date of issue of work order.
- 56.2 Late Delivery charges: As per Clause no.29.
- 56.3 The safe **delivery of the instruments** to the respective field stations and at central receiving stations (CRS) will be the responsibility of the bidder.
- 56.4 The Bidder will **test all** hardware & software operations and carry-out all adjustments necessary for successful and continuous operation of the equipment at all installation sites and fulfill the project goal.
- 56.5 The supplier should provide Lifetime License of the all application software supplied under this project.
- 56.6 The supplier should also provide at no **extra cost for a period of 8 years, all the latest version of** upgraded firmware of DAS, application software, data retrieval software, communication software etc., which are being upgraded from time to time along with the relevant installation steps.
- 56.7 A complete list of deliverables is given along with Price Bid **Annexure-6**.

57 Training:

- 57.1 The training should NOT be clubbed with Acceptance Test Plan.
- 57.2 Bidder should provide training for a period of 5 working days for 10 trainees at NCS HQ, Lodi Road, New Delhi, India. During the training period installation of firmware in DAS, parameter setting, acquisition s/w installation and configuration, performing calibration of sensors, waveform display, data transfer to SeisComp3 auto-location software etc. should be demonstrated.
- 57.3 A **detailed training plan** about the topics to be covered in the training, shall be submitted by the Bidder, sufficiently in advance before commencement of training programme, for NCS's approval.
- 57.4 Three sets of hard copy of the training material is to be provided.
- 57.5 Each trainee should be provided with soft-copy of training material in a USB disk.
- 57.6 OEM of DAS should deliver lectures through webinar (or video conference).

58 Site Acceptance Test:

- 58.1 The supplier shall submit detailed Site Acceptance Test **(SAT) plans** for system acceptance. **The supplier should submit the test plan well in advance.** The test plan shall require concurrence by the Purchaser.
- 58.2 The purpose of the site acceptance test is to verify the performance of the system as per the specifications and functional requirements. This will include both the H/w and S/w tests. The acceptance tests will comprise of overseeing and evaluating the satisfactory and fail proof performance to ensure trouble-free operations for **FIVE consecutive days** of all the equipment simultaneously and collectively, namely the Broadband Seismometers, Strong Motion Sensors, Digital Seismic Data Acquisition Systems, Network operations (both H/w and S/w), data flow at three CRSs, data uploading to SeisComp3 etc., in conformity with the Technical Specifications and RFP.
- 58.3 As per the mutually agreed test procedures, site acceptance test should be carried out at site after installation (at each site or at designated field station and the CRS). The supplier shall arrange for necessary **test equipment**.

58.4 In the event of equipment **failing to pass the site acceptance test**, a period not exceeding four weeks will be given to rectify the defects and clear the acceptance test, failing which the Purchaser reserves the right to get the equipment replaced by the Bidder at no extra cost to the Purchaser or to cancel the order and recall all the payments with applicable interest rate from the date of the respective payments.

59 Warranty

59.1 The Bidder warrants that the Goods supplied under the Contract are **new**, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

59.2 The Bidder further warrants that all Goods supplied under this Contract should have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Purchaser's specifications) or from any act or omission of the Bidder, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

59.3 The bidder should offer **comprehensive on-site free warranty** for a period of **TWO years** from date of **acceptance of the Goods**. Any rates quoted for warranty will be considered for deciding lowest bidder.

59.4 The supplied battery (12V 100AH) should be under Comprehensive on-site warranty for a period of two years.

59.5 During the period of warranty, in the event of the equipment developing snags or malfunctioning or if it stops functioning altogether, the Purchaser will promptly inform the Bidder, and the Bidder's maintenance engineers should attend to the complaint immediately and operationalize the equipment in the least possible time. During the period of warranty, the **upkeep time for the DAS and application software** should be:

59.5.1 No down time for Acquisition software,

59.5.2 No individual DAS of field station on main land should be down for more than 48 hours while the down time for field stations in the North-East India should not be more than 72 hours from the time the complaint is logged

59.6 The **time period for which the equipment** was down and not operational, beyond least possible time mentioned above, will be deemed to be the downtime and would be

taken into consideration for extending the warranty period by twice the downtime for that system.

- 59.7 The Bidder should supply, **free of cost**, during the period of Warranty, updates of all software supplied including firmware of DAS, at the time of initial installation and commissioning.
- 59.8 The warranty is to be provided at the site. The bidder shall be responsible for arranging dispatch of any defective unit from the site to their factory site for any repair work/replacement, at their own cost. All the cost towards re-export/re-import of defective unit including custom duties, transportation charges etc. shall be borne by the supplier.

60 Documentation:

Supplier will deliver **all documentation** in English language in three sets both in hard (bound volume) and soft copies at the time of delivery of equipments, one set for each central site (CRS). Software licences of all application software for each CRS should be supplied. The documentation should include system integration; Operation, maintenance, and troubleshooting procedures; application software, software logic diagrams, for each at Central Receiving System (CRS).

61 Bidder's Obligation:

- 61.1 Bidder is responsible for installation of acquisition software at all three CRSs and ingesting of continuous data into the existing earthquake-auto-location software SeisComp3 at each CRS.
- 61.2 The Bidder is responsible for customization of software requirements and conduct all contracted activities in accordance with the Contract using state-of-the-art methods and economic principles and exercising all means available to achieve the Performance specified in the Contract.
- 61.3 The Bidder is obliged to work closely with the Purchaser's staff, act within its own authority and abide by directives issued by the Purchaser for the implementation of various activities.
- 61.4 The Bidder will abide by the job safety measures prevalent in India and will free the Purchaser from all demands or responsibilities arising from accidents or loss of life, the cause of which is the Bidder's negligence. The Bidder will pay all indemnities arising from such incidents and will not hold the Purchaser responsible or obligated.

- 61.5 The Bidder is responsible for managing the activities of its personnel or sub-contracted personnel and will hold himself responsible for any misdemeanours.
- 61.6 The Bidder will treat as confidential all data and information about the Purchaser, obtained in the execution of his responsibilities, in strict confidence and will not reveal such information to any other party without the prior written approval of the Purchaser.
- 61.7 The bidder is liable to pay TDS and other applicable taxes as per Gol norms for the contract and services provided by them, as per rates prevailing at the time of contract.

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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 (BG or FDR) 240 days starting from the date of opening of tender ?		
	(iii) Is Registration certificate from MSME/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 mentioned in Section II- General Contract Terms (GCT) of the Tender Enquiry (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). (Bid may be ignored if not signed)		
4.	Have you enclosed clause-by-clause Compliance Statement for each clause starting from Clause no.1.1 to 61.7.		
5.	Have you submitted copy of the last purchase order(s) and end user certificate?		
6.	(i) Is tender Submitted as Manufacturer/OEM?		
	(ii) Is tender Submitted as Authorized Agent/ Dealer/ Supplier/ Distributor of OEM? Is Authorization Certificate attached?		
	(iii) Is tender submitted by Indian agent quoting on behalf of foreign principal: If yes, whether the necessary documents are attached as mentioned in TE Document ?		
7.	(i) Is copy of Permanent Account No. of Indian Bidder attached		
	(ii) Is GST Number with Registration Certificate attached?		
8.	Name of the Indian supplier with complete address to whom supply order is to be placed.		
9.	Contact details (Email and Phone No.) of Indian Supplier/Bidder		
10.	Have you quoted for Optional Items along with main items in the Price Bid		

(Signature with date)

(Full name, designation on behalf of the Bidder)

TENDER ACCEPTANCE FORM

(For all the terms & conditions of tender document are acceptable to Bidder)

To

The Director, National Centre for Seismology,

Mausam Bhawan Complex, Lodi Road, New Delhi-110003

Ref: TE document No. NCS/_____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 Warranty in conformity with your above referred document.

If our tender is accepted, we undertake to supply the goods and perform the services of (Installation & commissioning etc.), as mentioned in tender document with the requirements, terms and conditions specified in the Section 1 and Section II of tender document.

I/We further confirm that, if supply / purchase order is placed to firm, we shall provide 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 and seal of the company)
(Name and designation)

Duly authorised to sign tender for and on behalf of Bidder / Tenderer

**Note* : Firm/company shall use their own printed letter head for issuing this certificate
Acceptance shall be unconditional.**

MANUFACTURER'S AUTHORISATION FORM

(Bidders, quoting products other than his own manufactured products, shall submit this certificate in following format on the Letter Head of the firm)

To,
The Director, National Centre for Seismology
IMD Campus, Mausam Bhawan, Lodi Road, New Delhi-110003

Sub: Manufacturer Authorization for Tender No _____.

Sir,

We, **<OEM/ Manufacturer name>**having our registered office at**<OEM/ Manufacturer address>**, are an established and reputed manufacturer of

We confirm that **<Bidder Name>** having its registered office at **<Bidder Address>** is our authorized partner for We authorize them to quote for in the above-mentioned tender.

We hereby confirm that we shall provide all service and maintenance support to our authorized partner during the entire contract period. We also ensure to provide required spares and service support to the above authorized partner while offering onsite maintenance services.

Yours faithfully,

[Signature with date, name and designation]
for and on behalf of Messrs_____

[Name & address of the manufacturers along with Seal of the firm]

Note: 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 (original letter to be attached or to be shown at the time of opening of bids).

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

Whereas (hereinafter called the “tenderer”) has submitted their offer dated.....for supply of 50 numbers of seismic Data Acquisition System (DAS) equipments and its accessories for RTSMN and NE stations of NSN.....(hereinafter called the “tender”) against the purchaser’s tender enquiry No.KNOW ALL MEN by these presents that WEof 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 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 the Purchaser during the period of its validity:-
 - a) If the tenderer 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, National Centre for Seismology”, 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 upto 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.

Bank Guarantee issued with the tender enquiry reference No.NCS/..... Dated.....

.....

(Signature of the authorized officer of the Bank)

Name and designation of the office

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

APPLICATION-CUM-BILL FOR REFUND OF EMD

FORMGAR 43D [See Rule 186(1)]

Director, (Kind Attn. to: DDO) National Centre for Seismology
IMD Campus, Mausam Bhawan, Lodi Road, New Delhi-110003

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 ₹(₹) only being repayable on Account of release of deposited described above.

Claimant's Signature.

(with revenue stamp affixed)

For use in Departmental Office

1. Received payment of ₹..... (₹.....) for arranging disbursement to claimant.

2. Passed for Payment of ₹(₹) to claimant(s) Shri/Smt./Ms..... against personal deposit account administered by me.

DDO(NCS)

For Director National Centre for Seismology
In case of endorsement of above

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

Passed for payment of Rs.Payment by Cheque No.

Pay & Account Office

PRICE SCHEDULE (Financial Bid format)

Sr. No.	Particulars	No. of Unit	Make	Model	UNIT PRICE (INR)			Total price (INR)
					Base price	Applicable taxes & duties	Total unit price	
A	B	C	D	E	F	G	H=F+G	I=HxC
1.	Six Channel Data Acquisition System (DAS) with storage memory card/ USB disk, GPS antenna and cable, power cable, Ethernet cable, electrical grounding cable etc. as per clause no.48, including & DAS firmware as per clause 50.1	50						
2.	External DC-DC convertor as per Clause no.48.21	50						
3.	Sensor cables (Clause no.48.1)	20						
	Sensor cables (Clause no.48.2)	20						
	Sensor cables (Clause no.48.3)	5						
	Sensor cables (Clause no.48.4)	25						
	Sensor cables (Clause no.48.5)	25						
	Sensor cables (Clause no.48.6)	5						
4.	Supply of maintenance free Batteries (each of rating 12V 100AH) (Clause no.49)	37						
5.	Application software at three CRSs (Clause no.50.2)	3						
6.	Spares and accessories (Clause no.51)							
7.	Delivery and installation (Clause no. 55 and 56)	37 sites + 3 CRSs						
8.	Training at Delhi (Clause no. 57)	1						

9.	Site Acceptance Test (Clause no.58)	1						
10.	Warranty (Two years) as per Clause 59)	-						
11.	Total in INR							

Optional Items

Sr. No.	Particulars	No. of Unit	Make	Model	UNIT PRICE (INR)			Total Price (Rs.)
					Base price	Applicable taxes & duties	Total unit price	
1	Replacement of existing sensor cable connector at DAS-end at 37 field sites (Clause no. 52.1)	37						
2	DAS-end connectors for sensor cables of broadband seismometer and strong motion sensor (Clause no. 52.2)	80						
	Total in INR	-						

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 the total price, then 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. In optional items, the purchaser reserve the right to increase or decrease the quantity.
6. If any charges are not indicated specifically and separately in the price bid, the same will be treated as inclusive.
7. Refer the clauses given at 48.7, 50.2, 52.3, 53, and 59.4

Place : _____ Date : _____ Signature of Bidder _____ Seal of the Bidder _____

ROFORMA FOR PERFORMANCE STATEMENT

(For a period of last Ten years)

Order placed by (Full address of the purchaser)	Order No. and date	Description and quantity of ordered equipment	Value of order	Date of completion of delivery as per contract actual	Remarks including reason for late delivery, if any	Has the system /equipment been satisfactorily functioning?(attach a certificate from the purchaser / consignee)

Signature and seal of the bidder.....

.....

.....

AUTHORISATION LETTER FOR ATTENDING TENDER OPENING

No.

Date:

To,
The Director,
National Centre for Seismology
Ministry of Earth Sciences
New Delhi-110003, India

Subject- Tender No. _____

Sir,
Mr. _____ has been authorized to be present at the time of opening of above tender due on _____ at _____, on my/our behalf.

Yours faithfully

Signature of Bidder

Copy to: Mr _____ for information and for production before the _____ (MM) _____ at the time of opening of bids.

Annexure-9

List of Sites

S N	Name	State	Code	Full Postal Address of the station with Pin code	Contact Person details	BB Sensor Model No. / [Serial .No.]	Accelerometer Sensor Model No. / [Serial No.]
1.	Dhubri	Assam	DHUB	DDMA, O/o Dy. Commissioner, Dhubri, Assam Pincod-783301	Sh. M. Sarkar (Project Officer)8876841117 9435070217(M), 03662-231149 9706950138, 8724092360	REFTEK 151 - 120A / [G09153VS]	REFTEK 131A-02/3 / [298]
2.	Mokochung	Nagaland	MOKO	O/o Dy. Commissioner, Mokochung (Nagaland)-798601	Keyholder(Limma) - 6909257474 09402795411 0369-22262310(O)	REFTEK 151 - 120A / [G09148VS]	REFTEK 131A-02/3 / [290]
3.	Agartala	Tripura	AGT	Meteorological Centre, Agartala, Agartala Airport, Tripura West - 799 009.	Mazumdar (met a)- 9436123628 Phukan Met-II- 8974394579 09862087413(M) 0381-2342253(O)	REFTEK 151 - 120A / [G09147VS]	REFTEK 131A-02/3 / [283]
4.	Jorhat	Assam	JORH	Principal, Jorhat Engineering College, District : Jorhat, Through Dy. Commissioner, District, District-Jorhat, Pincod-785007	0376-2320020(DC) Kiron Hazarika 7896643762 Utpal Hazarika- 9854375263 Other Mobile No.- 09864078634	REFTEK 151 - 120A / [G09140VS]	REFTEK 131A-02/3 / [289]
5.	Belonia	Tripura	BELO	Belonia, SDM Office. South Tripura - 799155.	Shri JayantaNazir, SDM, Belonia, Mobile No.- 7085390086 Arup Sharma, Sr Comp Asst Mobile No.- 9862040899	REFTEK 151 - 120A / [G09151VS]	REFTEK 131A-02/3 / [279]
6.	Gangtok	Sikkim	GTK	Seismological Observatory, Daragaon, P.O. Tadong, Gangtok (Sikkim) - 737102.	Abhishek kayal(S.A.)- 7003104874 Milan Kanti Das 7005783654 7980155463, Officer in Charge, Shri A K Saha	REFTEK 151 - 120A / [G09135VS]	REFTEK 131A-02/3 / [282]

					03595-271131(O) 9433125347		
7.	Kohima	Nagaland	KOHI	Legislative Assembly Complex, Kohima, Nagaland -797001.	Shankar (electrician) :9436609365 Asa Lie ; 9436010235 09436642201(M) 0370-2271507(O) 0370-2271512(O)	REFTEK 151 - 120A / [G09133VS]	REFTEK 131A- 02/3 / [278]
8.	Imphal	Manipur	IMP	Seismological Observatory, Chingmeirong, PO Lamlong, Imphal (Manipur)-795001.	Mr. S. Hamen Sing, Officer In-Charge 09856252895(M) 0385-2321035(O)	REFTEK 151 - 120A / [G09134VS]	REFTEK 131A- 02/3 / [296]
9.	Aizawl	Mizoram	AZL	Department of Geology & Mineral Resources, Aizawl-796009, Mizoram	Shri Lalbiakkima, Jt. Director- 9436143001. Tma mining :8014341032 (latest contact 2018) Lalrautnima DDO/Technical Officer-9436195716 09436142188(M) 0389-2332154(O) 0389-2332410,2330168(R)) 9774398159	REFTEK 151 - 120A / [G09152VS]	REFTEK 131A- 02/3 / [284]
10.	Silchar	Assam	SILR	Meteorological Office, Shibalik Park, Meherpur , PO - Silchar, Distt. Cachar (Assam) - 788015	Aman Raj- 8409209055 Mr. KK Bhowmik - 09774143886 Mr. R. Ghosh, Officer in Charge- 09954940344, 9954916202 03842-231193(O)	REFTEK 151 - 120A / [G09145VS]	REFTEK 131A- 02/3 / [295]
11.	Lekhapani	Assam	LKP	Seismological Observatory, Tirap Gate, Via Ledo, Distt. Tinsukia (Assam) - 786 182.	Mintu Sharma- 9954539319 BijanMajundar- 9854429381 03751-292560(O)	REFTEK 151 - 120A / [G09137VS]	REFTEK 131A- 02/3 / [280]
12.	Ziro	Arunachal Pradesh	ZIRO	DRDA, Manipolyang, O/o Dy. Commissioner, District: Lower Subansiri, Ziro, AP-791120.	T.Yami 8259872726 U P .Singh 8729902500 SmtNani(peon)- 9856249869 Madhu(Key)- 8760990465	REFTEK 151 - 120A / [G09139VS]	REFTEK 131A- 02/3 / [285]

					Mrs NemaDrema- Protocol Officer Mobile No.- 9436047437,943604 5746 03788-224270(PD) 03788-224255(DC)		
13.	Tezpur	Assam	TEZP	Dy. Commissioner, P.O. Tezpur, District Sonitpur : Assam – 784001	Sanjeev bora thakur(care taker) 9854122731 Nazir, Tezpur DC office- Sh Rajiv Goswami- 9435381080	REFTEK 151 - 120A / [G09142VS]	REFTEK 131A- 02/3 / [286]
14.	Itanagar	Arunachal Pradesh	ITAN	DDMA, O/o Dy. Commissioner,,Yup ia, District: Papum Pare, Arunachal Pradesh -791111	Care taker –Tachi Topu-9402900940, 9402991313 Smt. Y. Jerang, DDMO, Ph - 9436225275, 09436069135, 0360-2290793(O), 9402991313.	REFTEK 151 - 120A / [G09143VS]	REFTEK 131A- 02/3 / [297]
15.	Tura	Meghalaya	TURA	Seismological Observatory, Ring Rey Forest Tila, West Garo Hills, Tura, Meghalaya - 794001.	D.C. Sarkar, Ph no-7085554239 Officer In-Charge- PH.-03651-224746 Indira (house owner)- 8812833855	REFTEK 151 - 120A / [G09136VS]	REFTEK 131A- 02/3 / [293]
16.	Guwahati	Assam	GUWA	RMC Guwahati, LGBI Airport, Guwahati - Assam – 781039	Office PH.- 0361- 2840206/2840237, 9864232832, 700232663 7002395750 7086024171 03612582943	REFTEK 151 - 120A / [G09149VS]	REFTEK 131A- 02/3 / [179]
17.	Dibrugarh	Assam	DIBR	District Disaster Management, Authority (DDMA), O/o Dy. Commissioner, Dibrugarh, District: Dibrugarh, Assam- 786001.	Hati kakoti - 9678468787 Met Incharge MO Mohanbari- 9730813356 7085182158	REFTEK 151 - 120A / [G19141VS]	REFTEK 131A- 02/3 / [299]
18.	Tawang	Arunachal Pradesh	TAWA	Seismological Observatory, O/o DDMA, Dy. Commissioner, Tawang, District:	Chaubay - 9436078928 Shri Tsangpa Tashi, DDMO-	REFTEK 151 - 120A / [G09150VS]	REFTEK 131A- 02/3 / [281]

				Tawang, 790104	AP- 09436251233 03794- 223255/224739, 09436207474(Staff)		
19.	Pasighat	Arunachal Pradesh	PASG	Disaster Management, O/o Dy. Commissioner, Pasighat, District: East Siang, AP-791102	0368-222178, 09436053326, 09436632759	REFTEK 151 - 120A / [G09138VS]	REFTEK 131A- 02/3 / [294]
20.	Saiha	Mizoram	SAIH	Seismological Observatory, O/o Dy. Commissioner, Saiha, Mizoram - 796901	Sh. Chandan (Caretaker)- 8732080718 ADC- 9436144003, 03835-222024(O), 0385-226067(O), 0385222042	REFTEK 151 - 120A / [G09146VS]	REFTEK 131A- 02/3 / [291]
21.	Bhopal	Madhya Pradesh	BHPL	Seismological Observatory, Meteorological Centre, India Meteorological Department, Arrera Hills, Jail Road, Bhopal-462 011	Sh. Ved Prakash Singh, Scientist "B" PH:09818780617 Mr. Wahid PH: 09039225514	Nanometrics Trillium240 / [427]	Nanometrics Metrozet TSA-100S / [TSA-1065-11- 00360]
22.	BHUJ	Gujrat	BHUJ	Seismological Observatory, India Meteorological Department, Patwarinaka, Kodaki Road, Opposite Bharat Dudh Dairy, Bhuj-370 001, Gujarat	PH: 02832-221352 Mr. Yogesh kumar Bhat, MTS - 8866697407	Nanometrics Trillium240 / [283]	Nanometrics Metrozet TSA-100S / [NA]
23.	Bokaro Thermal	Jharkhand	BOKR	Seismological Observatory, India Meteorological Department, Bokaro Thermal (Post), Girdhi District -829 107 (Jharkhand)	PH:06549-266781 Pinaki Mandal , OIC Mobile no. 09831027478	Nanometrics Trillium240 / [422]	Nanometrics Metrozet TSA-100S / [TSA-1065-11- 00358]
24.	Campbell Bay	Andaman & Nicobar	CMBY	Seismological Observatory, India Meteorological Department, Rajiv Nagar, Near Old Assistant Commissioner Office, Campbell Bay, Great Nicobar, A&N Islands,	Mr. M.V. Jose Ph/Fax : 03192- 264217/264218 / 264070	Nanometrics Trillium240 / [423]	Nanometrics Metrozet TSA-100S / [TSA-1065-11- 00396]

				Pincode: 744202			
25.	Dehradun	Uttarakhand	DDI	Seismological Observatory, Met Centre, India Meteorological Department, G & R.B Campus 17, East Canal Road, Karanpur, Dehradun-248 001, Uttaranchal	PH: 0135-2654269/2714143 Abhinav Jha - 7505751813 Ashutosh Kala - 8979916709	Nanometrics Trillium240 / [429]	Nanometrics Metrozet TSA-100S / [TSA-1065-11-00366]
26.	Diglipur	Andaman & Nicobar	DGPR	Seismological Observatory, KL-2 type-1 , ward no.-2 Kalara, Naba gram police station, Kali Ghat, Diglipur (Post), North Middle Andaman District (Post)-744202	Mr. Tej Bahadur Executive Engineer Fax:03192-272203 PH: 03192-272473	Nanometrics Trillium240 / [428]	Nanometrics Metrozet TSA-100S / [TSA-1065-11-00359]
27.	Dharamshala	Himachal Pradesh	DHRM	Seismological Observatory, Wadia Institute of Himalayan Geology, Dal Lake (P.O), Upper Dharamshala-176216, Kangra (District), Himachal Pradesh	Mr. R.M. Sharma Senior Technical Assistant Mobile No.- 9882122330 Mr. Umed Singh - 08988362659	Nanometrics Trillium240 / [430]	Nanometrics Metrozet TSA-100S / [TSA-1065-11-00376]
28.	Goa	Goa	GOA	Seismological Observatory, Met Centre, India Meteorological Department, Altino Hill, Panjim, Goa-403 001	PH: 0832-2425547 Mr Rahul (Scientist "B")- 9643958464	Nanometrics Trillium240 / [296]	Nanometrics Metrozet TSA-100S / [TSA-1065-11-00370]
29.	Chennai	Tamil Nadu	MDRS	Seismological Observatory, Pilot Balloon Office , India Meteorological Department , Meenambakkam Chennai-600 006	PH: 044-22311097 Mr. Kamal SA Mobile No. 9443675297	Nanometrics Trillium240 / [288]	Nanometrics Metrozet TSA-100S / [NA]
30.	Hyderabad	Telangana	HYB	Seismological Observatory, NGRI, Uppal Road, Hyderabad-500 007	PH: 040-23434664	Nanometrics Trillium240 / [286]	Nanometrics Metrozet TSA-100S / [NA]
31.	Port Blair	Andaman & Nicobar	PBA	Seismological Observatory, Meteorological	PH: 03192-227750	Nanometrics Trillium240	Nanometrics Metrozet TSA-100S /

				Office, Shadipur (P.O.), Portblair-744 106, Andaman & Nicobar Islands		/ [421]	[TSA-1065-11-00380]
32.	PUNE	Maharashtra	POO	Seismological Observatory, Surface Instruments Division, Climate Research and Services, India Meteorological Department, Shivaji Nagar(P.O), Pune-411005	PH: 020-25535211 Mr. Apte (Met-A)-08087207622 Mr Dharpal - 09175085081	Nanometrics Trillium240 / [425]	Nanometrics Metrozet TSA-100S / [TSA-1065-11-00394]
33.	Shillong	Meghalaya	SHL	Seismological Observatory, Central Seismological Observatory, India Meteorological Department, Meath Home, opp. Petrol Pump(3rd Mile), upper Shillong-793 005, Meghalaya	9863022211 8787698572	Nanometrics Trillium240 / [287]	Nanometrics Metrozet TSA-100S / [NA]
34.	Shimla	Himachal Pradesh	SMLA	Seismological Observatory, Upper Bharari, Shimla - 171 001, H.P.	PH: 0177-2806724 Mr. Abhiram(Caretaker) Mob: 09816155992	Nanometrics Trillium240 / [431]	Nanometrics Metrozet TSA-100S / [TSA-1065-11-00035]
35.	Thiruvananthapuram	Kerala	TRVM	Seismological Observatory, Meteorological Centre, India Meteorological Department, Observatory Hill, VikasBhavan, Thiruvananthapuram-695 033	PH: 0471-2330025	Nanometrics Trillium240 / [294]	Nanometrics Metrozet TSA-100S / [TSA-1065-11-00364]
36.	Visakhapatnam	Andhra Pradesh	VISK	Seismological Observatory, Cyclone Warning Centre, India Meteorological Department, A.U. Out Gate, Beach Road, Visakhapatnam-530 017	PH: 0891-2555163 Mr. G.V. Nageshwar Rao – 9014585887	Nanometrics Trillium240 / [426]	Nanometrics Metrozet TSA-100S / [NA]
37.	Minicoy	Lakshadweep	MNC	Seismological Observatory,	PH: 04892-22238	Nanometrics	Nanometrics Metrozet

				RS/RW Observatory India Meteorological Department, Minicoy-60558, Lakshadweep		Trillium240 / [424]	TSA-100S / [TSA-1065-11- 15474]
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LETTER HEAD OF THE OEM

AGENCY AGREEMENT WITH THE MANUFACTURER OF SEISMIC EQUIPMENT.

Tender Enquiry No. dated

This is to certify that _____(as Indian Agent) having their registered Office at _____ (complete Address of Indian Agent) will be representing _____ (as Manufacturer/OEM) as our Agents in India for products being manufactured, under following terms.

1.	Date of appointment as Indian Agent	
2.	Date to which the Agreement is valid	
3.	Authority to commit & sign on behalf of OEM whose signature, Name, Designation are given.	
4.	Product (s) covered in Agreement.	
5.	After-sales Services and Back up Support	
6.	Back to Back arrangement during installation, and warranty	

(Authorized signatory of OEM) Designation Name : Address of Indian Agent: Email Id: Tel No. Fax No. Company seal

(Authorized signatory) Designation Name : Address of Indian Agent: Email Id: Tel No. Fax No. Company seal
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