

E-TENDER NOTICE
NO. MPPCB/Pur./01/2021-22

TENDER DOCUMENT

FOR

**Supply, Installation, Commissioning and Operation &
Maintenance (O&M) of Real Time Ambient Noise
Monitoring System (RTANMS)**



Year: 2021 - 22

M. P. Pollution Control Board

E-5 Sector, Paryavaran Parisar, Arera Colony, Bhopal – 462016

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M. P. Pollution Control Board

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E-TENDER NOTICE **NOTICE INVITING TENDER (NIT)**

Tender Notice No. MPPCB/Pur./01/2021-22

- (1.1) M. P. Pollution Control Board intend to procure and establish Real Time Ambient Noise Monitoring System (RTANMS) at 04 locations in Bhopal (M.P.). These Noise Monitoring Stations shall provide real time noise monitoring data through 4G/5G network at scheduled interval and as and when requested by the users. Each Noise Monitoring Station should be connected and capable of transmitting data to Empanelled Cloud Server of Ministry of Electronics & Information Technology (MEITY), GoI and also provide data sharing to M.P. Pollution Control Boards and Central Pollution Control Board through Cloud Server. Basic Network Architecture and Layout is shown in Attachment-2. The Noise monitoring stations shall provide SMS alarms notification to the Central receiving station to warn about over passed alarm user predefined thresholds as well as for internal system self-diagnosis report.
- (1.2) The Member Secretary, M. P. Pollution Control Board invites E-Tenders in two cover system (Technical and Financial) on portal at <http://www.mptenders.gov.in> from reputed, experienced and eligible manufacturers or their authorized dealer / agent /representatives, specially authorized for this tender for Supply, Installation, Commissioning and Operation and Maintenance (O&M) Service for five years of Four Nos. Real Time Ambient Noise Monitoring System (RTANMS) for display or measurement of noise level at four locations at Bhopal as per following details:

Sl. No.	Description of Items	Qty.	Estimated Cost (Rs.)	Earnest Money (EMD) (Rs.)
1	Supply, Installation, Commissioning, Demonstration and Operation & Maintenance (O&M) of Real Time Ambient Noise Monitoring System (RTANMS) as per annexed specification (Annexure-1)	04	64,61,538.00	1,30,000.00

- (1.3) The laboratory instrument/equipment indicated above are being procured under financial assistance provided by CPCB, Delhi.
- (1.4) Tender documents may be downloaded from Government of Madhya Pradesh E-Procurement portal at <http://www.mptenders.gov.in> as per the schedule given in Critical Date Sheet as under:

CRITICAL DATE SHEET

Description	Date	Time
Date of Publishing and Bid Document Download date	01.12.2021	5:00 PM
Pre Bid Date	10.12.2021	11.00 AM
Uploading of Minutes/Clarifications/Corrigendum on	10.12.2021	5.00 PM



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the portal (If any)		
Bid Submission Start Date	11.12.2021	11.00 AM
Bid Submission End Date	30.12.2021	11.00 AM
Technical Bid Opening Date	31.12.2021	11.00 AM
Financial Bid Opening Date	31.12.2021	03.00PM

- (1.5) The proof for submitting Tender Cost of Rs. 1500.00 (Rupees One Thousand Five Hundred only) and Earnest Money Deposit (EMD) of an amount of Rs. 1,30,000.00 (Rupees One Lakh Thirty Thousand only) shall be submitted online on or before the last date of submission of tenders. No tender shall be considered without requisite tender fee and earnest money. (No any exemptions entertained by the Board).
- (1.6) The Tender documents will not be available in physical form. The detailed terms & conditions are available in tender document. For detailed tender document and any amendment (if required) regarding the said tender shall be available only at Board's Web site www.mppcb.mp.gov.in and www.mptenders.gov.in.

Senior Scientific Officer



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M. P. Pollution Control Board intend to procure and establish Real Time Ambient Noise Monitoring System (RTANMS) at 04 locations in Bhopal (M.P.). E-tenders are invited reputed, experienced and eligible manufacturers or their authorized dealer / agent /representatives, specially authorized for this tender for Supply, Installation, Commissioning and Operation and Maintenance (O&M) Service up to 05 years from the date of commissioning and all related services with respect to above mentioned system, which are shown in the tender notice (NIT). The detailed tender documents including terms and conditions are as follows:

- A. Procedure for Submission of the Tender:** Each bidder shall submit his offer in two Covers. First Cover shall contain scanned copies of proof for submitting Tender Cost and Earnest Money (EMD) online on the portal along with all qualification documents such as compliance of technical specification, terms & conditions, company profile, copy of GST registration number, PAN number and authorization certificate from manufacturer (Annexure-3) for submission of offer for this tender, if offer is submitted by authorized representative along with other format as listed in the checklist (Annexure-21). The Second Cover shall contain financial offer (BoQ). The tender shall be submitted online in two covers as per following details:
- a. First Cover (Technical Bid)** should contain scanned copy of proof for submitting Tender Cost and Earnest Money (EMD) online in the portal along with all qualification documents such as compliance of technical specification, terms & conditions, company profile, copy of GST registration number, PAN number and authorization certificate from manufacturer for submission of offer for this tender, if offer is submitted by authorized representative. The First Cover shall be opened on scheduled dated and time as per critical data sheet mentioned in the Notice Inviting Tender (NIT). The first cover must contain self verified scanned copies of the following documents:
- (i) Detailed compliance of technical specifications in annexure –2 along with documents and relevant details to establish that the goods and the allied services to be supplied by the Bidder conform to the requirement of the tender documents such as Make & Model, functioning procedure, drawing, data, leaflet/brochure of the equipment indicating quoted model specifications.
 - (ii) Tender Acceptance Form as per annexure-4 alongwith all documents mentioned.
 - (iii) Company Profile, which includes documents such as copies of documents defining constitution, legal status, Power of Attorney of firm/ resolution of Board of Directors of company, certified published annual reports for the last three continuous years showing the turn over and financial results of the Bidder duly certified by Chartered Accountant.



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- (iv) If the offer is submitted by authorized representative, he should submit authorization letter from the manufacturer (as per annexure-3) for submitting offer for this tender, otherwise tender offer of the firm shall not be considered and liable for rejection.
 - (v) In order to examine capability of the bidder and to check the reasonability of rates, the bidder should attach scanned copies of documentary proof i.e. atleast three/two purchase orders showing detailed breakup of price schedule from any PCBs / Govt. Ministries / Departments / PSUs /CSIR Labs/ Scientific Institutes/Universities of National repute) to show that the Bidder has supplied the quoted instruments during last five years from the date of opening of technical bid.
 - (vi) The bidder shall have to submit the copy of GST registration number.
 - (vii) Income tax no. [PAN]
 - (viii) An undertaking shall be submitted by the bidder, regarding whether they are not black listed in any Govt. organization / institutions.
 - (ix) Details of supplies made by the tenderer along with performance certificate, during last five years with similar model/equipment & specifications or better [Users' list].
 - (x) The details of service station in Madhya Pradesh/ India should be furnished with other details.
 - (xi) The bidder shall also provide Bank Name, Account Name, Account Number, Account Type, Branch IFSC Code for safer & easier payment transaction through RTGS/NEFT.
 - (xii) All the annexures and attachment described in the tender document as per checklist.
- (b) Second Cover (Financial Bid):** Offers received in due time shall be evaluated technically by a committee constituted by the Competent Authority, M. P. Pollution Control Board and as per the recommendation of committee, depending upon the credentials submitted in first cover, suitability of equipment with respect to offered specifications, application and performance, the financial offer shall be opened. The date of opening of financial bids (Second Cover) will be informed later. Financial Bid shall comprise Financial offer in BoQ of the tender document.

B. Instructions to the Bidders on E-tendering:

- (i) The bidder shall submit their offer in accordance with this tender document.
- (ii) The bidder, after submitting its tender, is permitted to alter/modify its tender so long as such alterations/modifications are done within the deadline for the online submission of tenders. Any alteration/modifications in the tender thereafter is not permitted.
- (iii) No tender can be withdrawn after the deadline for online submission of tender and before expiry of the tender validity period. If a bidder withdraws the tender during this



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period, it will result in forfeiture of the earnest money furnished the the bidder in its tender.

- (iv) The Purchaser will open on-line the Technical bids on prescribed date and time. 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.
- (v) Physical presence of the bidder at the time of opening of tender will not be essential in the e-tendering process. At the appointed time, the bid openers would open the bids online and the details of the technical bids offered by the bidders would be known to all on the portal.
- (vi) The first cover, i.e. Technical Bids will be opened on-line, first and evaluated by the Screening-cum-Technical Committee to assess that the goods and services offered are as per the technical specifications, necessary credentials and relevant documents.
- (vii) The Second Cover, i.e. Financial Bid of only technically qualified offers shall be opened online and evaluated.
- (viii) The tender will first be scrutinized to determine whether they are complete and meet the essential and important requirements, as prescribed in the Tender Document. The bids, which do not meet the basic requirements along with submission of all required documents and formats, are liable to be treated as non-responsive and rejected.
- (ix) 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.
- (x) Separate evaluation of Bids received for each type of tendered equipment/instrument will be carried out. Technical Bids will be evaluated on the basis of information/compliance of the technical specifications and data/ documents provided in the bids as well as the actual performance of the equipment/ instruments being offered. Technical bids of the Bidders, who fulfill qualification criteria laid down in the tender document. If the details/data given in the technical bids are found in the conformity with the technical specification prescribed in the Tender Document, testing of the models offered by the Bidders may be carried out by the Screening-cum-Technical Committee, if required to ascertain the actual performance of the equipment/instrument. Bidder, will arrange, at his cost, the demonstration of the equipment/instruments during any stage of bidding process.
- (xi) Financial Bids of the Bidders, whose technical bids are qualified, shall only be opened. The lowest Bidder (L1) shall be determined on the basis of the Price quoted by the Bidder altogether for Supply, Installation, Commissioning which will be



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inclusive of Training, Demonstration, Testing etc (as applicable) and O&M charges for a period mentined in the tender document.

C. SPECIAL CONDITIONS:

- (i) Prices quoted in BoQ should be CIF New Delhi or any port in India for imported equipment which also includes other charges such as custom clearance/ duties (if any), transportation & insurance up to final destination. For indigenous equipment prices should be F.O.R. destination which also includes other charges such as GST, Insurance, installation and training etc.
- (ii) Prices should be quoted for complete set of equipment including the cost of installation, minor civil works, electrical fittings, monthly charges of electricity and internet and cabling etc (as applicable).
- (iii) Accessories/ spares required [if any] for maintenance for a period of five years should be given separately.
- (iv) Operation and Maintenance charges (O&M) including of consumables/spares for fiveyears should be quoted separately in the BoQ.
- (v) The technical specifications are shown in Annexure-1. The technical compliance of the offered equipment should be furnished in Annexure –2.
- (vi) The equipment offered should necessarily contain a warranty for its trouble free performance for a period of five years from the date of installation and commissioning.
- (vii) The offer should clearly mention make, name of the manufacturer, detailed specifications, detailed literature about the equipment/circuit diagram/drawing of the mechanism and any other information relevant to the equipment. For any printing error/mistake in final bid will be the responsibility of the bidder and no correspondence will be entertained by the Board in future.
- (viii) The tenderer should furnish details of supplies made by him to important institutions, along with performance certificate, during last five year with similar model/equipment & specifications or better. The bidder must submit users list along with the previous purchase order copies of RTANMS supplied to any Central /State /PCBs / any CSIR Laboratories/Universities/PSUs or Institutions of national repute.
- (ix) The firm / manufacturer submitting the offer shall only quote for one most suitable model of the offered equipment whose specification matches the Board's specifications. No alternate offers shall be considered and, if submitted, the offer shall be rejected. In case the manufacturer of any equipment authorizes more than one firm for submitting offer, then such offers shall be treated as rejected.



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- (x) The earnest money (EMD) is required to protect the Purchaser against the Bidder's withdrawing or altering its bid during the validity period. The requisite amount of earnest money shall be submitted online on the portal and scanned copy of proof for submitting Earnest money (EMD) shall be uploaded alongwith First Cover. Offers without earnest money and tender fee shall not be considered and the relevant Covers will not be opened and their offer shall be treated as rejected. 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. The successful Bidder's earnest money will be forfeited if it fails to furnish the required performance security within the specified period.
- (xi) The bidder shall submit scanned copy of proof for submitting Tender fee online on the portal in First Cover. Offers without tender fee shall not be considered and the relevant Covers will not be opened and their offer shall be treated as rejected.
- (xii) The bidder shall have to submit the copy of GST registration number and Income Tax registration [PAN] in First Cover otherwise the offer shall be liable for rejection.
- (xiii) An undertaking shall be submitted by the tenderer that they are not black listed in any Govt. organization / institutions in First Cover.
- (xiv) The bidder shall provide exclusive company profile including necessary certificates / license for manufacture the product from DGTD / SSI/SIA etc. The bidder shall also provide Bank Name, Account Name, Account Number, Account Type, Branch IFSC Code for safer & easier payment transaction through RTGS/NEFT.
- (xv) The specifications are clearly mentioned in the document and the Bidder is requested to submit Bid only if their offer strictly comply with these specifications. Please note that no deviation in the required specification will be permitted. The bidding for the instruments having different specification will be on Bidder's risk as the Board will not entertain such Bids.
- (xvi) Pre- Contract Integrity Pact: Prospective bidders have to sign a Integrity Pact as per the format given in Annexure-6 and submit it alongwith the Technical Bid in the first cover. Bidders are advised to read the Integrity Pact carefully, fill in the required details, sign and affix the seal and submit alongwith the first cover. The bids which does not contain the Integrity Pact will be summarily rejected.
- (xvii) Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority (Annexure-8). As per the direction issued by Ministry of Expenditure, Department of Expenditure, vide order no. F. No. 6/18/2019-PPD dated 23rd July, 2020, the Competent Authority for this purpose of registration under this Order shall be the



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Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT) as per following details:

- (1) "Bidder" (including 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- (2) "Bidders from a country which shares a land border with India" for the purpose of this order means:
 - a. An entity incorporated, established or registered in such a country; or
 - b. A subsidiary of an entity incorporated, established or registered in such a country; or
 - c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - d. An entity whose beneficial owner is situated in such a country; or
 - e. An Indian (or other) agent of such an entity; or
 - f. A natural person who is a citizen of such a country; or
 - g. A consortium or joint where any member of the consortium or joint venture fall under any of the above.
- (3) The beneficial owner for the purpose of above will be as under :
 - (i) In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation:

 - a. "Controlling ownership interest" means ownership of or entitlement to more than twenty- five percent of shares or capital or profits of the company;
 - b. "Control" shall include the right to appoint majority of the directions or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreement;
 - (ii) In case of the partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical



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person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;

- (iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
 - (iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
 - (v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- (4) An agent is a person employed to do any act for another, or to represent another in dealings with third person.
- (5) The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

D. OTHER CONDITIONS:

- (i) The Board reserves its rights to reject any or all the tenders without assigning any reason there for.
- (ii) Tender found incomplete shall be rejected forthwith.
- (iii) The indigenous equipment, for which an order has been placed, after acceptance of the tender, shall have to be delivered, installed & demonstrated to the consignee mentioned in the supply order within 60 days from the date of issue of supply order. In case of late supply and installation of the material, 2% per month penalty shall be charged. The maximum penalty for late supply shall not exceed 10% of the total ordered value. In case of unavoidable delay in supply a prior permission shall be obtained for extension in delivery period.
- (iv) The time limit for the supply of imported equipment shall be 90 days from the date of opening of letter of credit, which can be extended as per the prevailing rules of the Board. After scheduled time limit, 2% per month penalty or maximum penalty up to 10% of the total ordered value should be levied.
- (v) If the tenderer is not a manufacturer himself, should have a facility for repairing and maintenance of the instrument. The details of service centers in Madhya Pradesh / India should be furnished along with other details.



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- (vi) It shall be the responsibility of the tenderer to deliver and install the material to the consignee in sound condition without any damage. Any damage or loss during transit shall be on the account of the tenderer.
- (vii) The tenders shall be valid for a period of 360 days from the date of opening of First Cover (Technical Bids). In exceptional circumstances, the competent authority may in writing or by e.mail, solicit the Bidder's consent to an extension of the period of the Bid validity. If the Bidder agrees to the request for extension, the Bid Security shall also be extended for an equivalent period of time. Any Bidder may refuse to extend the validity of his Bid without forfeiting his Bid Security, but the Bid will not be considered. Bidders granting the requests for extension of the Bid validity will not be required or permitted to modify their Bids.
- (viii) The prices should include all taxes like GST tax, excise tax or any other tax.
- (ix) The approved firm / manufacturer shall have to submit Ten Percent (10%) security deposit of the ordered value in the form of Demand Draft/FDR/Bank Guarantee (Annexure-5) towards Performance Security for a period of five years, other wise 10% amount shall be deducted from the total ordered value.
- (x) In case the approved tenderer fails to effect supply, within the specified period as per work order, the earnest money is liable to be forfeited.
- (xi) The consignee or any other officer authorized by the Board shall have the right to reject any or all the items of the supply, if they do not confirm to specifications mentioned in the supply order. The rejected items shall be lifted by the tenderer at their own cost. The consignee will not be responsible for the custody and safety of such items.
- (xii) The Board reserves its rights to affect any reasonable increase or decrease in the quantity or number of items at the time of issue of supply order in the interest of the Board.
- (xiii) The bidder/Indian representative should quote a price for delivery of items at the respective site. MPPCB will provide concessional custom duty exemption certificate to local representative of the seller for the foreign manufactured items consigned to MPPCB. The bidder will have responsibility of clearance of goods from custom after paying the mandatory custom duty and completing all necessary formalities for custom clearance. After custom clearance, the bidder will transport the goods to all designated sites. All the charges should be included in the price bid (BoQ). This office will open the letter of credit [L/C] as may be required and will only sign the documents wherever required.
- (xiv) In case, if any supplier quote their rates in Indian Rupees for imported equipment and do not require custom duty exemption certificate from the Board, then the supplier has to submit import document like bill of entry, custom duty paid and NMI [Not manufactured in India] certificate from the manufacturer.
- (xv) The tenderer is expected to examine all instructions, forms, terms and conditions and specifications mentioned in the bid document. Failure to furnish all information



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required by the bid documents of submission of a bid not substantially irresponsive to the bid document in every respect will be at the tenderer's risk and may result in the rejection of its bid.

(xvi) The terms of payment shall be as under:

[A] **Indigenous Items:** 100% of the cost of material would only be paid after receipt, satisfactory installation and demonstration (Training if applicable) of the equipment / material at site as per annexure -7 and after receipt of verified bill from the respective consignee.

[B] **Imported equipment:** The letter of credit will be opened for total ordered value, but 50% of the cost will be released on receipt of shipment documents such as Air Way Bill, Commercial Invoice, Packing List etc. of the material and balance 50% payment shall be released only after receipt, satisfactory installation & demonstration of the equipment at site.

(xvii) Conditional offers will not be accepted and liable for rejection.

(xviii) In case of any dispute the decision of Competent Authority, M. P. Pollution Control Board shall be final & binding.

(xix) In order to comply the instructions of Department of Commerce & Industries, Govt. of M.P., and minimum 30% of the quantity of the items shall be reserved for the manufacturers / entrepreneurs from Scheduled castes/ scheduled tribes based at Madhya Pradesh.

NOTE: The tenders shall be liable for rejection in breach of any of the special or other general conditions of the tender document and no correspondence in this regard shall be entertained in future.

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TENDER AND CONTRACT FOR SUPPLY OF MATERIALS GENERAL RULE AND DIRECTIONS FOR THE GUIDANCE OF SUPPLIERS

- (1) All suppliers proposed to be obtained by contract will be notified in a form of invitation to tender posted in public places/News Paper/Boards website.
- (2) The tender form will state the supplies to be made, as well as the date for submitting and opening tenders and the time allowed for supply, also the amount of earnest money to be deposited with the tender.
- (3) In the event of tender being submitted by a firm it must be signed separately by each member thereof or in the absence of any partner, it must be signed on its behalf by a person holding a power of attorney authorizing him to do so, such power of attorney should be produced with the tender and it must disclose that the firm is duly registered under the partnership Act.
- (4) Any person who submits a tender shall fill up usual printed form stating at what rate he is willing to undertake supply of each item. Tender which propose any alteration in the work/supply specified in the said form of invitation to tender, or time allowed for carrying out work/supply will be liable for rejection.
- (5) The Member Secretary or his duly authorized assistant will open tenders on website and will enter the amount of several tenders in a comparative statement in a suitable form. Receipts for earnest money will be given to all tenderers except those whose tenders are rejected and whose earnest money is refunded on the day that the tenders are opened.
- (6) The officer competent to dispose of the tenders shall have the right of rejecting all or any of the tenders.



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CONDITIONS OF CONTRACT

- (1) The time allowed for the supply of materials as entered in the tender shall be strictly observed by the supplier and reckoned from the date of which the order to commence supply of materials shall throughout the stipulated period of the contract be proceeded with all due diligence (time being deemed to be the essence of contract) on the part of the supplier and the supplier shall pay as liquidated damage an amount equal to two percent per month or such smaller amount as the Member Secretary, M.P. Pollution Control Board, may decide on the amount of estimated cost of the whole of the materials as shown in the estimated cost of the that the supply remains un commenced or unfinished after the proper dates. In the event of the contractor failing to comply with this condition shall be liable to pay as liquidated damage an amount equal to two percent or such smaller amount as the Member Secretary may decide on the said estimated cost of the whole of the materials for every day that the due quantity of supply remains incomplete to, provided that the due quantity of liquidated damage to be paid under the provisions of this clause shall not exceed ten percent on the estimated cost of the supply of materials as shown in the tender.
- (2) If the Tenderer shall be hindered in the supply of the materials so as to necessitate an extension of the time allowed in this tender he shall apply in writing well in advance or immediately after the cause occur to the Member Secretary, M.P. Pollution Control Board who shall if in his opinion (which shall be final) reasonable grounds be shown therefore authorize such extension for a period not exceeding in 15 days. Any further extension shall be subject to the previous sanction of the Chairman.
- (3) The supplier shall give notice to the consignee officer of his intention of making delivery of materials and on the materials being approved a receipt shall be granted by him to the Consignee Officer or his assistant, and no material will be considered for payment until so approved.
- (4) On the completion of the delivery of the materials the supplier shall be furnished with a certificate by the Consignee Officer of M.P. Pollution Control Board.
- (5) The material shall be of the best description and in strict accordance with the specification and the supplier shall receive payments for such materials only as are approved and passed by the Member Secretary/Consignee Officer.
- (6) In the event of materials being considered by the Consignee Officer to be inferior to that described in the specification the supplier shall on demand in writing forth with remove the same at his own charge and cost and in the event of his neglecting to do so within such period as may be named by the Consignee officer that officer may have such rejected material removed at the contractor's risk and expense incurred being liable to be deducted from any sum due or which may become due to the supplier.
- (7) Receipts for payment made on account of a supply when executed by a firm must also be signed by several partners except where the contractors are described in



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their as a firm in which case the receipt must be signed in the name of firm by one of the partners are by some other person having authority to give effectual for the firm.

- (8) Under no circumstances whatever shall the contractor be entitled to any compensation/interest from Board on any account.
- (9) The supplier shall supply at it own expense all tools, plant & implements required for the due fulfillment of his contract and the materials shall remain at his risk till the date for final delivery, unless it shall have been in the mean time removed for use by the Consignee Officer.
- (10) No materials shall be brought to site or delivered on Sunday/holiday without the written permission of the Consignee Officer.
- (11) The supplier shall not sublet this contract without the written permission of the Member Secretary, M.P. Pollution Control Board. In the event of the contractor subletting his contract without such permission, he shall be considered to have thereby committed a breach of the contract, and shall forfeit his earnest money and shall have no claim, for any compensation for any loss that may occur from the materials he may have collected or engagements entered into.
- (12) The decision of the Chairman, M.P. Pollution Control Board, Bhopal shall be final, conclusive & binding on all parties to the contract upon all questions relating to the meaning of specification and instructions herein before mentioned and as to qualify of materials or as to any way arising out of, or relating to the contract specifications, instruction orders of these conditions or otherwise concerning the supplies whether arising the progress of after the completion or abatement thereof.
- (13) On the breach of any term of condition of this contract by the supplier, the said Chairman shall be entitled to forfeit the earnest money, security deposit and the balance thereof that may at that time be remaining and to realize and retain the same as damages and compensation for the said breach but without prejudice to the right of the said Board to recover any further sums as damages from any sums due or which may be come due to the contractor by M.P. Pollution Control Board, or otherwise howsoever.
- (14) The Goods supplied under the contract shall be fully insured (Comprehensive) in currency acceptable as per the existing Law of India against loss or damage incidental of manufacturer or acquisition, transportation, storage, shipment, delivery, installation and training (as applicable) involved with the Contract naming the Board as the beneficiary. The insurance shall be paid in an amount equal to 110 percent of the EXW value of the Goods from “warehouse to warehouse (final destination)” on “all Risks” basis including War Risks and Strikes depreciated annually as per standard norms.

Senoir Scientific Officer



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Pre-Qualification for the Bidders for the Project:

The Bidders shall need to qualify the following criteria to Bid for the mentioned job:

1. The bidder should have experience of supply, installation commissioning, operation and maintenance and data transfer of at least 3 nos. Real Time Ambient Noise Monitoring System as specified in bid document such as sensors, data transfer etc. to reputed organization as mentioned in the bid document via Server or Cloud. Documentary Proof is required to be submitted.
2. The Average financial turnover of the bidder during the last three years should be at least 30% or above of the tender value. The bidder has to provide duly certified balance sheet from the Chartered Accountant.
3. The bidder must note that all the accessories, Consumables, Installation, commissioning service and operation related work including Sim card, power supply etc. shall be in the bidder's scope.
4. Successful bidder would bear the cost of insuring the equipment and facilities against any theft, fire, natural calamity and deployed main power insurance during contract period.
5. If any break down in RTANMS including occurs, it will have to be rectified without any delay for this, bidder should have RTANMS /Sensors/ in spare.
6. After installation of RTANMS if the situation arises, the supplier will have to undertake at-least two time shifting of the system from the existing location to another location free of cost within the State during entire contract period.

SCOPE OF WORK

M. P. Pollution Control Board intend to procure and establish Real Time Ambient Noise Monitoring System (RTANMS) at 04 locations in Bhopal (M.P.). These Noise Monitoring Stations shall provide real time noise monitoring data through 4G/5G network at scheduled interval and as and when requested by the users. Each Noise Monitoring Station should be connected and capable of transmitting data to Empanelled Cloud Server of Ministry of Electronics & Information Technology (MEITY), GoI and also provide data sharing to M.P. Pollution Control Boards and Central Pollution Control Board through Cloud Server. Basic Network Architecture and Layout is shown in Attachment-2. The Noise monitoring stations shall provide SMS alarms notification to the Central receiving station to warn about over passed alarm user predefined thresholds as well as for internal system self-diagnosis report.

- (i) The true / validated data from all the desired locations shall only be transmitted to the Central Server at MPPCB and concerned Regional Offices.
- (ii) Central Server shall possess the capability to receive, analyze and archive the data received from the Remote stations.



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- (iii) The trained data analyst (to be provided by the bidder) shall be available round the clock to qualify / analyse the received data from all the stations for contract period.
- (iv) Complete supply, installation, commissioning and Operation and Maintenance (O&M) Services up to five years shall be in the bidder's scope. All manpower and tools etc., software required shall be in the bidder's scope.
- (v) Laying of all cables for installation and commissioning of Real Time Ambient Noise Monitoring Systems shall be in bidder's scope of work.
- (vi) The full insurance of the offered RTANMS shall be in the bidder scope during the warranty period /O&M contract.
- (vii) All charges such as Lease Line for internet and Broadband (for station) and data card as more communication (for display board and any other advanced upgraded communication system and other incidental charges such as monthly bill of electricity and internet charges bourn by the bidder.

DETAILS OF PROJECT STRUCTURE: Successful Tenderer would be awarded the project/work under a Supply and Service Agreement, which would entail:

1. Supply, installation, Commissioning of four Sets of RTANMS Equipment at the defined locations (Annexure-19) at Bhopal city of Madhya Pradesh State.
2. Operation and Maintenance of the RTANMS for five years including warranty period from the date of it's commissioning.
3. Daily reporting of data pertaining to the services to MPPCB. MPPCB would make payment for RTANMS as per schedule of requirement, for Supply, Installation and Commissioning of the system. MPPCB would procure all the RTANMS equipment on its name. MPPCB will make regular payments for the O&M and supply of Data at the end of each Month. The tenderers therefore need to quote for supply, installation, commissioning, Operation and Maintenance (O&M) services of Real Time Ambient Noise Monitoring Systems for period of Contract.
4. MPPCB would provide land for installation of RTANMS free of cost, in the identified city/location to the Successful Bidder. Along with the land, MPPCB would provide letter/ documents for telephone and electricity connections at the proposed location. Bidder would bear the installation cost for these facilities and the monthly recurring cost pertaining to their usage (monthly telephone, electricity and Internet bill) would also be borne by the Successful Bidder.

SCOPE OF SERVICES

The Scope of Service under the package shall include:

- (i) The supply is including packing, transportation, insurance, custom clearance, port clearance and handling, inland transportation, inland transit insurance and delivery to site, installation, testing and commissioning of equipment and provision of training of MPPCB officials.
- (ii) Operation & Maintenance of Real Time Ambient Noise Monitoring system for a period of Five year from the date of commissioning of the station including warranty



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period, which can be extended up to five (5) years at the mutually agreed rates and terms and conditions.

- (iii) Data & Report of data pertaining to RTANMS to MPPCB.
- (iv) On line transfer of data to MPPCB/CPCB.

MINIMUM TECHNICAL SPECIFICATIONS

The minimum technical specification requirements for the RTANMS to be installed are given in (Technical Specifications) of tender document. However, the actual technical proposal can have higher or better technical performance parameters and the minimum specifications proposed should not be taken as a constraint on the upper side. The technical specifications given in tender documents are descriptive and Selection Committee can consider technical proposals having similar specifications.

DATA MANAGEMENT AND QUALITY CHECKS

Data shall be collected and validated according to IS standards and MoEFCC/CPCB protocol.

Successful tenderer shall submit a Standard Operating Procedure for the Ambient Noise monitoring station to the Board before award of contract. This Standard Operating Procedure shall be approved by the Board prior to award. The Standard Operating Procedure shall contain the following:

- Operating procedures for all Analyzers
- Calibration procedures
- Calibration schedule Maintenance procedures
- Maintenance schedule
- Data validation procedures
- Data reporting as per attachment

Data obtained from these calibration checks and copies of associated Quality Assurance and calibration documentation, shall be submitted to the Board along with the Noise Quality Data.

Inventory of spares and consumables to be maintained and recorded from time to time and a buffer stock for any eventuality to be maintained.

GENERAL GUIDELINES

Working Hours: The site for RTANMS operation should be manned by the employees of the Successful Tenderer for 24 hours a day. In addition the Successful Tenderer would arrange for a security of the site and equipments.

Insurance: Successful Tenderer would bear the cost of insuring the equipment (Comprehensive) and facilities against any theft, fire natural calamity like flood and



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other applicable provisions during tenure of contract period including O&M with a copy to MPPCB of an appropriate amount.

Operation & Maintenance of Real Time Ambient Noise Monitoring Stations:

The Contractor's responsibilities shall include without limitations the following works to be carried out on the Real Time Ambient Noise Monitoring system installed under this Contract during the Operation & Maintenance of the stations:

- (a) Operation and Maintenance of all the commissioned equipments and amenities as supplied by the Manufacturer under the Contract including services during forced and planned outages and overhauls.
- (b) The Contractor shall take over the entire Noise Monitoring Station (including all equipment) for O&M after execution of Indemnity Bond as per annexure-19 of tender document.
- (c) The Contractor shall provide to the owner a monthly summary of all operation and maintenance activities performed by the contractor during each month.
- (d) Operation and Maintenance Obligations: In implementing its obligations to operate and maintain the facility under this Contract, the Contractor shall:
 - i) Undertake comprehensive maintenance including i.e. schedule and breakdown maintenance & repair at site and keep Board Informed regarding status of equipments and forward daily data as per Attachments.
 - ii) Obtain permission from the owner and inform the O&M for any assistance for which equipment is required to be sent to the works. Contractor shall arrange substitute equipment to keep RTANMS station operational.
 - iii) Take reasonable action to assure that the Personnel deployed at Noise Monitoring Stations and any subcontractors and agents are provided with a work place in compliance with applicable Law.
 - iv) Keep the Noise Monitoring Stations clean, well maintained and in good working condition.
 - v) Security: It is the duty of the Contractor to secure the movable, immovable and other properties of the Owner at the Noise Monitoring Station. The Contractor shall indemnify the loss caused to the Owner on account of any damage, loss or theft caused to the property of the Owner.
 - vi) Scheduled Maintenance: Unless Owner and Contractor mutually agree otherwise, perform all required Scheduled maintenance for all equipment, auxiliaries etc., in accordance with the O&M specifications.
 - vii) Unscheduled maintenance: Perform all unscheduled maintenance and repair for all equipment auxiliaries' etc. within (24) hours of the occurrence of the event requiring Unscheduled Maintenance, the operator shall provide the Owner with detailed written information on nature of the repair or replacement to be carried out, estimated down time and other necessary details as required.
 - viii) The Contractor shall source all the spares required for maintenance & repair of the



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installed equipment from O&M only.

(e) The Operator shall not:

(i) Make any modifications as to the Noise Monitoring Stations, other than in an Emergency, without the prior written approval of the Owner, or

(ii) Dispose off any assets, settle law-suits or engage in transactions relating thereto on the Owner's behalf without the prior written approval of the Owner.

(f) The Contractor shall purchase spare parts, materials, supplies and other consumable items, and maintain an inventory thereof, for the Noise Monitoring Stations. All such material supplied and other items shall be the property of the Contractor However all the spares shall be sourced from OEM's only.

(g) The Contractor shall review all applicable Laws and initiate and maintain such prosecution, procedures and operating plans relating to operation of the Noise Monitoring Stations as are necessary to comply therewith or assist the owner in complying therewith as the case may be.

(h) The Contractor shall operate the equipment as per the laid out standards in the operating manual of the equipment and providing data for noise to MPPCB on daily basis in the suggested format as per Attachment-1. The daily monthly and yearly Reporting Formats should be maintained.

(i) The RTANMS has to be in operation for a minimum of 85% of the days in a year, 24 hours a day, and should not be inoperable for more than 7 days at a stretch except adverse natural conditions.

(j) Provide data collected through operation of the equipments on daily basis in suggested output formats given in the tender document (Attachment-1).

(k) Establish and maintain a daily and monthly and yearly reporting system to provide storage and ready retrieval of operation and maintenance data including such information necessary to verify calculations. The monthly reporting shall contain variances from targets.

(l) Provide access to the owner to the Noise Quality Monitoring Stations and its data at all reasonable times and as and when required.

(m) Provide the operational data required to all competent authorities including, Government of India or concerned State Governments.

(n) On line transfer of data to MPPCB/CPCB web site.

(o) The Contractor shall ensure accuracy of the data provided as per standards.

(p) The contractor shall ensure periodic re-calibration of all the equipments and



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maintain protocol calibration.

Owner shall arrange for the following and Contractor shall guide and assist the Owner:

- a) The Owner shall pay O&M charges to the Contractor as mentioned as payment condition in work order after submission of validated data.
- b) Owner shall pay all fees including GST Tax, etc., imposed upon Owner by the Applicable Law.
- c) The Owner shall identify and hand over the site for erection & commissioning of Noise Monitoring Stations free from all encumbrances.
- d) The Owner shall make the arrangement for electricity & telephone connection at the site. However monthly charges for both electricity and phone bill shall be borne by the Contractor.
- e) The valid data capture rate should be minimum 85%. The full payment shall only be made if validated data is 85% and all the calibration protocol maintenance scheduled and spare parts/ consumable replacement document are maintained and verified by the owner/ board. The contractor has to maintain records / Receipts/ bills paid available as and when required.

Handing Over of Station: On expiry/closure/termination of the Contract Agreement, stations shall be handed over to Board in working condition to the satisfaction of Board. Few or all the spares procured by the Contractor and unused as on date of handing over may be purchased by the Owner at his discretion provided Contractor is able to provide reasonability of the costs of such spares. In addition the Contractor shall provide consumables equivalent to three months consumption on expiry/closure/termination of the Contract Agreement without any extra financial implication.

Penalties:

During O&M period, in case of any Analyser/ system failure, penalty will be charged by MPPCB @ Rs.1,000/- (one thousand) per day per Analyzer after a grace period of seven (7) continuous non-working days. The grace period of seven (7) continuous non- working days shall be given only once per quarter (3 months).

For a failure of Data display:

Board/panel, a penalty will be charged by MPPCB @ Rs. 1,000/- (one thousand) per day after a grace period of five (5) continuous non-working days. The grace period of Five (5) continuous non-working days shall be given only once per quarter (3 months).

Failure due to power outage and other Force Major conditions shall not be considered for levy of penalty. Total penalty per year during O&M period on account of above conditions shall be limited to 30% of total O&M charges for one year. Failing which defective/ malfunctioning analyser / system has to be replaced.

In case penalty in the year exceeds 30% as above, the Contractor shall be required to replace the defective analyzer (s) or systems with new ones at his own cost, failing which the MPPCB shall have the right to terminate the O&M contract.



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SCHEDULE

Contractor shall complete all activities covered in the scope of work up to installation & commissioning of Noise Monitoring Stations within 90 days from date of opening of Letter of Credit.

The Contractor shall carry out Operation & Maintenance of Noise Monitoring Stations for a period of five year from the date of commissioning of the station (1+5), which can be extended up to further five (5) years at the mutually agreed rates and terms and conditions.

The operation and maintenance contract shall be executed by the concerned Authorized Officer of Madhya Pradesh Pollution control board having jurisdiction or the area under his control. The term and condition shall be governed as per the tender document.

After successful tendering all remaining contract/agreement & other paper work will be done as per standard format adopted by Board as in other tendering procedure.

Validation of data: Data that is delivered to the Employer by the Service Provider as part of this contract will be subjected to a data validation process. The data validation process, handled under a separate contract, will use the Service Provider's – audit self (calibration) process to qualify the data for purchase in addition to inspecting the data for artifacts and irregularities.

Data Collection: Data will be collected from 04 locations which will comprise Four fixed stations for measurement of hourly data for 24 hours.

Data Collection and Delivery: All hourly and 24 hourly noise monitoring data from all locations will be delivered initially to the Service Provider's the Employer dedicated's Data Center on server real time basis. Such server shall be set up and maintained by the Service Provider at his cost throughout the duration of the contract. The data will immediately on receipt be transferred from the Service to the Provide Employer's server housed in the same Data Center on real time basis. The Service Provider shall provide the data as text files, one file for each transmission and the data will be placed in a directory as indicated by the Employer /Data Qualification Consultant.

Data Collection: The fixed stations will measure Noise quality parameters once per hour ± 5 five minutes and transfer all log data within 5 minutes of measurement.

Data Storage: The Service Provider shall store all real-time data collected during the duration of the contract. This storage shall be 100% online. This means that any data values can be called up instantaneously through the duration of the contract. In the event of any contingency, the Service Provider will provide access on the Employer's downloading any part or the entire database maintained.

Quality Assurance and Control through Sensor Calibration

The Service Provider is required to perform regular calibration and adjustment of instruments using traceable standards as available.



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Calibration Frequency

- (i) All instruments shall be calibrated at frequencies no longer than once every seven days. If the instruments are not calibrated within the seven days since the previous calibration, then any data delivered will not be taken up for validation and hence the same shall not qualify for payment. However, after the calibration is done and the same is witness by the Official of MPPCB, data will then be considered for validation/payment.

Traceable Standards

The Service Provider will use portable meters for calibration of the sensors and the calibration be traceable to national / international standards. In case of two consecutive calibrations the “drift” found more is than double of the accuracy ranges indicated in the table of specification the Service Provider will require to replace the instrument.

Calibration Results

Upon completing field calibration, the station parameters will be set to match the calibration results.

Documentation

The results of the sensor calibration will be documented and made available in real-time on Employer’s Data. The Center calibration entry must include the date, time, station, sensor initial reading, sensor adjustment through calibration, sensor final reading, comments on general station/sensor observations, and names of person(s) present during the calibration.

Completeness of Data Requirement for Payment:

The Service Provider shall maintain the equipments and sensors are in good working order throughout the period of contract. Data supplied for any hour shall be considered for validation and payment provided following conditions are satisfied:

Measurements must be received from at least 85% of the total locations and The measurements received from each such location shall not be less than 85% of the measurements specified for it.



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Attachment-1

Tender No. MPPCB/Pur./01/2021-22

SUPPLY, INSTALLATION, COMMISSIONING, OPERATION & MAINTENANCE, SERVICE OF REAL TIME AMBIENT NOISE MONITORING SYSTEM AND DATA CONNECTIVITY

REPORT FORMAT

1. Monthly Data Report (City Wise)

S.N.	Station No.	Stations Name with Zone		Limit in dB(A) Leq		Day Leq- dB(A)	Day Max dB(A)	Day Mini dB(A)	Night Leq. dB(A)	Night Max dB(A)	Night Mini dB(A)
		City	Location	Day 06 AM to 10 PM	Night 10 PM to 06 AM						
1.		Bhopal	Bhopal, Paryawaran Parisar, E-5, Arera Colony, (R)	55	45						
2.			Bhopal, Mrugnanyani Hamidia Road, (C)	65	55						
3.			Bhopal, C.E.T.P. Govindpura Industrial Area, (I)	75	70						
4.			Bhopal, Civil Hospital Bairagad (S)	50	40						

I = Industrial, C = Commercial, R = Residential, S = Silence Zone

2. Daily Inspection Report

S.No.	Stations Name	Leq dB(A) 24 hourly	Min. Value dB(A)	Max. Value dB(A)	Avg. Battery Level 24 hrs. (Volts)	Gap/Remarks, if any
1.						
2.						
3.						
4.						

3. Yearly Report

S.N.	Station No.	Stations Name with Zone		Limit in dB(A) Leq		Day Leq- dB(A)	Day Max dB(A)	Day Mini dB(A)	Night Leq. dB(A)	Night Max dB(A)	Night Mini dB(A)
		City	Location	Day 06 AM to 10 PM	Night 10 PM to 06 AM						
1.		Bhopal	Bhopal, Paryawaran Parisar, E-5, Arera Colony, (R)	55	45						
2.			Bhopal, Mrugnanyani Hamidia Road, (C)	65	55						
3.			Bhopal, C.E.T.P. Govindpura Industrial Area, (I)	75	70						
4.			Bhopal, Civil Hospital Bairagad, Bhopal (S)	50	40						

I = Industrial, C = Commercial, R = Residential, S = Silence Zone



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4. Monthly Report

Station Name	Limit in Leq dB(A)		January		February		March		-----		-----		December	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Bhopal, Paryawaran Parisar, E-5, Arera Colony, (R)	55	45												
Bhopal, Mrugnanyani Hamidia Road, (C)	65	55												
Bhopal, C.E.T.P. Govindpura Industrial Area, (I)	75	70												
Bhopal, Civil Hospital Bairagad, Bhopal (S)	50	40												

TECHNICAL SPECIFICATION

SCOPE OF PRESENT TENDER ENQUIRY

M. P. Pollution Control Board has planned to establish the Real Time Ambient Noise Monitoring Network at 04 (Four) stations of Bhopal city with 4G/5G modem for transmission of data to the central receiving station. The Noise Monitoring Stations shall provide real time noise monitoring data through 4G/5G network at scheduled interval and as and when requested by the users. Each Noise Monitoring Station should be connected and capable of transmitting data to Empanelled Cloud Server of MEITY and also provide data sharing to M.P. Pollution Control Boards / Central Pollution Control Board through Cloud Server. Basic Network Architecture and Layout is shown in Annexure-XIV. The Noise monitoring stations shall provide SMS alarms notification to the Central receiving station to warn about over passed alarm user predefined thresholds as well as for internal system self-diagnosis report.

TECHNICAL SPECIFICATIONS OF REMOTE STATION

The Remote Station for Ambient Noise Monitoring Network should have standalone operating terminal, appropriate for outdoor installation for continuous measurement of ambient noise. Microphone connected to an advanced acoustic signal processing unit, complete with an electronic measurement and processed-data storage, provided as well with an integrated 4G/5G Noise Monitoring Terminal.

The remote station should allow the connection of other meteorological sensors whose measurements can contain interesting correlations with Noise Levels (e.g. pollution, cars counters, wind sensors, etc.).

General Specifications of Noise Monitoring Terminal (NMT):

NMT consists of a weatherproof cabinet containing a noise level analyzer a communication device for transmitting data to receiving station, a back plate and an outdoor microphone, all of which can be mounted on a mast.

1.	Standards	61672-1(2013) or equivalent Class 1, Class 1 type for Omni directional.
2.	Power Supply	230v AC \pm 10% Power back up should provide complete power autonomy to the field stations with telemetry enabled for minimum 10 days without charging the internal battery or either by Solar panel or by power supply. Complete power budget calculation to be provided with the technical bid to support the uninterrupted power supply,
3.	Time weighting	Fast, Slow, Impulse and Peak IEC 61672-1 (2013)
4.	Frequency /weighting	A and C
5.	Dynamic Span	120 dB or more (20-140 dB)
6.	Noise floor	<20(A) dB
7.	Memory	Storage of all the above measured and stored data for at



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		least 1 month at 1-second acquisition rate
8.	Calibration	Automatic Calibration
9.	Resolution	0.1 dB (A)
10.	Display	Auto brightness, alpha numeric, display High viewing angle, high brightness display
11.	Operating Temperature Range	10 ⁰ C to +50 ⁰ C
12.	Humidity Range for external devices	100% condensing
13.	Humidity range for internal devices	95 % RH Non – Condensing
14.	Communication ports	RS232, USB, Ethernet/TCP/IP or better
15.	Sampling Rate	Short Leq time history user selectable from 125ms, 1 second or 2 second etc. Leq, Lmax, Lmin and Ln periods adjustable between 1 minute and 1 hour
16.	Measured and Stored data	Leq, Lmax, Lmin, Lpeak, L10,L50 & L90 . Short time Leq with Measured time and date. 1/1,1/3 Octaves
17.	Number of Input Channels	02
18.	Communication mode with central receiving station/server	4G/5G, internet connectivity, mobile connectivity or better
19.	Programmability	Fully Programmable. All functions must be programmable from remote access or direct from the instrument
20.	Diagnostic	Self-diagnostic feature should be available
21.	Essential functions	Time Synchronization with central receiving station/ server
22.	Remote Access	Web interface with Web monitoring feature
23.	Remote Calibration	Remote calibration from Central Station

* Class 1 Type international certification with Horizontal and Vertical reference direction either from LNE, PTB, METAS, CEM or BEV

Specification for Enclosure for Remote Stations:

A. Remote Stations:

Weatherproof cabinet	Weatherproof enclosure preferably with IP 66 protection suitable for mounting on mast.
Security	Should be supported/equipped with standard sensors to check the unauthorized intrusion and have ability to produce telecommunication alarm if the enclosure has been opened.
Mast	Length of Lattice mast should be 4 meter and to be mounted in a concrete base. The material of the mast should be galvanized and non-corrosive.
Cabling	All cables are armored and protected by conduits
Flexible	There should be provision of adopting/ installing standard interfaces.



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B. UPS Enclosure: Weatherproof enclosure protection suitable for housing of Electric connection, UPS and batteries (6hrs backup)

Note : All installation and mounting accessories bolts should be of stainless steel to avoid corrosion.

Specification of Outdoor Microphone:

Standards	IEC 61672-1:2013 or equivalent Class1, Class 1 type for Omni directional
Microphone type	Permanent outdoor Microphone based on External polarized capsules (for better Temperature and Humidity performance)
Operating Temp	-10 ⁰ C to +50 ⁰ C
Humidity Range external components	100% RH (Condensing)
Humidity Range internal components	95% RH (non-Condensing)
Range	20-140dB (SPL)
Frequency response	IEC 61672 Class 1 (2013) or equivalent
Output connector	Compatible with NMT
Pole adapter	Suitable for instrument monitoring
Accessories Required	Bird spike, wind screen, Protected Extension cable

Specification of Hardware and Software for Central Receiving Station

Data processing Workstation PC-01 No

The software shall be capable of automatically preparing the reports for the previous day, week, month, quarter and year, and make them available for download and presentation in an Excel spreadsheet.

The software must be able to integrate the old noise monitoring system and support new noise monitoring terminals.

Software Management:

- Software capable for requesting, downloading, editing, processing and representation and management of data.
- The software integrates the entire data request commands made to the stations in real time data or data saved in the memory.
- Software allows the users to change and/or modify the configuration of the stations, enable to perform tasks such as date and time synchronization with the computer and adds new measuring channels specifying the different sampling and storage periods, as well as the statistical calculations to be stored.



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Hand on Operations

The following parameters of stations must be configurable for each station.

- Allow the setting of Date/time of the station.
- Real time data request from each channel (in table and graphs)
- Downloading of data stored in the station
- Downloading the station's configuration of PC
- Downloading of PC's configuration to the stations
- Channel calibration settings
- Alarm trigger user settings for each station

Data Analysis

- Data enquiry over several days
- Comparison of readings between stations
- Daily statistics enquiry
- Strip charts of the daily statistics
- Comparison between the daily statistics of various stations
- Comparison between parameters from the same stations or from different stations

Visualization of Data

- Enquiry of data in Table Form
- Enquiry of data in graph form
- Temporary graphs composition window

Additional Features

Work station will be used for data abstraction, visualization from cloud. Specification for works station is mentioned below:

Make/Company	HP/Dell/Lenovo Desktop PC or equivalent
Operating System	Windows 10 professional or better at the time of delivery.
Hard disk capacity	2 X 1TB or more
RAM	8 GB or more
Processor	5 th Generation Intel® core I7- 2600s processor (2.8 hz) or better processor (4M cache, up to 3.0 GHz, TPM) or better
Display	25.0"
Accessories	Mouse, Bag etc.

Workstation shall equipped with all accessories like mouse, Keyboard, 25" Screen, DVD reader/writer, internal audio, External O/P ports, graphic card and any other accessories.

Specification of software for central Receiving Station:

The software and monitoring system should be on cloud based system enlisted/empanelled by Ministry of Electronic and Information Technology. It can be



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operated using a standards web browsers on local and remote PC. The user interface should be intuitive and easy to use. Provision of Disaster Recovery (DR) site also be considered. Data sharing of mobile stations to MPPCB should be using either web serviced or FTP.

The software should support an Internet browser application and support the following:

- Easy to learn and efficient to use
 - Map display of NMTs and noise data
 - Simple method to select, sort and analyse data
 - Easy and hoc and complex query support and flexible reporting
 - Microsoft Excel and Word templates
 - Easy export in a variety of formats
 - Screen capture to clipboards and simple incorporation in to reports and templates.
 - Workflow interaction to improve work efficiency
 - Integration of other environmental sensors such as air quality, water, weather and odour
- The system shall be capable of keeping data on the system and accessible for up to five years. A data backup service should be available.
- Printing of various reports and graphs
 - Zoom in and Zoom out facility with automatic graph scale Resizing
 - Stakeholder engagement portal
 - Stakeholder App for mobile
 - Registers all the events like Information message, error message
 - Information of the communications resources used by the PC at that moment
 - Exportation of readings to MS-Access or to text files (.txt), MS-Excel and XML .
 - Creating, monitoring environments with “gauges” displaying real time values.
 - Configuring maximum and minimum thresholds and sending alarms by email or SMS if data exceeds them or in case of failure or delay of data from any station.
 - Customizing maps with icons representing the selected stations. Icons should change their color if there is an alert in a station
 - Creating, enquiring and displaying on graph new variables using configured parameters and operators (+, -, *, /, AND, OR, sqr, sin, cos, max, pow, etc.).

Regular updates of software shall be provided on half yearly basis. Software shall be modified as per our requirement and it must include basic and advance statistical tools for data analysis and report generation for managing the huge database.

Web Enabled Software for data distribution

The Web Software Platform must be able for web posting of the data available on the Cloud system, in such a way that all authorized persons with an internet connection would have the possibility to access to the information of all the noise monitoring terminals. The user can customize the way to display the noise parameters. The user can play the role as administrator and define other users access rights. The web Enabled Software must have following features:

1. Only authorized users can access the web enabled data
2. The format for administrator for issue of user id and password should be provided.



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3. The authorized user should have access to current data and historical data.
4. User should have provision for full graphical plotting of the time series of the data and comparison of data from historical data of the station.
5. Graphical and GIS based visualization of all the Noise monitoring terminal. The GIS services to show the maps should be on open source like QGIS etc.
6. In graphical representation should have full attributes, which should be displayed by positioning cursor on the map.
7. The selected station by clicking on the map must show the geographical information and status of the stations, for example Name of station, Station ID, Latitude, Longitude, Height (msl) etc.
8. On selecting a station, the complete menu of the data should be displayed.
9. Data can be selected both in Tabular and graphical format
10. The graphical display for all noise parameters should be available
11. The graphical plot of noise data analysis like Peak Noise, average noise etc. are available for the user.
12. The authorized users can download noise data in PDF and Excel format.
13. User should have provision for full graphical plotting of the time series of the data and comparison of data from historical data of the station.
14. Graphical and GIS based visualization of all the Noise monitoring terminal
15. Image superposition on a map or on an imported noise map
16. The selected station by clicking on the map must show the geographical information and status of the stations, for example Name of station, Station ID, Latitude, Longitude, Height etc.
17. Automated reports about user-selected periods (day, week, month, year, etc.) in word, pdf and jpg format.
18. Limited display of data in MPPCB website for public domain as per format.
19. The new monitoring system must be able to integrate data from Phase 1 & 2 legacy system and display in real time
20. The software should have provision for integrating third party sensors, such as weather, air quality and other environmental data into the system.
21. The new system must be compatible and seamlessly integrated with the existing Web server, central and remote stations without any modification of existing system.

Back facility: The vendor is responsible for all support and backup during the contractual period.

Calibrator:

Specifications for External Acoustic Calibrator

Specifications for External Acoustic Calibrator

STANDARDS

EN/IEC 60942 (2003), Class 1 or equivalent

Sound pressure level:

Nominal: Dual range 94 dB and 114 dB/single range

Frequency : 1000 Hz

Power : Battery operated

Carry and storage case to be provided

Adaptor : suitable adaptor for microphone (as quoted by vendor).



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Annexure-2

TENDER SPECIFICATIONS VS OFFERED SPECIFICATIONS

(Tender No. MPPCB/Pur./01/2020-21)

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

Sl. No.	Tender Specifications	Offered Specifications	Documentary evidence/ leaflet enclosed/Page no.

Signature of Bidder
Name
Business Address

Place: -----

Date : -----



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Annexure-3

MANUFACTURER'S AUTHORIZATION FORM

(To be issued by the Manufacturer after the opening date of this tender, otherwise it will not be considered as a valid proof of Manufacturer's Authorization)

Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

To,

**The Member Secretary,
M. P. Pollution Control Board,
E-5, Paryawaran Parisar, Arera Colony,
Bhopal – 462 016 (Madhya Pradesh)**

Dear Sir,

Ref.: Your Tender Document No. MPPCB/ Pur./01/2020-2021.

We....., who are proven and reputable manufacturers of (Name and description of the goods offered in the tender) having factories at hereby authorize M/s..... (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 tender documents for the above goods manufactured by us. M/s (Name and Address of the agent) is having Years agreement/ association with us since.....

We further confirm that no Supplier or firm or individual other than M/s (Name and Address of the agent) is authorized to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred Tender Documents for the above goods manufactured by us.

We also hereby extent our full comprehensive warranty, as applicable as per the conditions, for the Scientific Instruments/Equipments offered for supply by the above firm against this Tender Document.

Yours Faithfully,

**(Signature with date, name and designation)
For and on behalf of M/s**

(Name & address of the Manufacturer)

Note: This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a person competent and having power of attorney to legally bind the manufacturer.



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Annexure – 4

TENDER ACCEPTANCE FORM (To be submitted on Letter Head) Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

Having carefully gone through the whole Tender Document (No. MPPCB/Pur./01/2020-21), we, M/s.-----, the Bidder, agree to all terms and conditions mentioned in them and hereby, make the following offer to supply the Instruments/Equipment as per the Schedule requirements, delivery schedule and in conformity with all other conditions in the Tender Documents and amendments. We will arrange for demonstration of models of the Equipment/Instrument being offered, within India as per the convenience of the Purchaser.

Bidder

1. Name of the Bidder-----
2. Address-----
3. Email-----
4. Phone-----
5. Income Tax Permanent Account Number (PAN)-----
6. Name and Complete Address of the Bidder's Bankers-----
(a)-----
(b)-----
7. Name and Designation of the Person Digitally signing and submitting the tender-----

8. Is the person digitally signing and submitting the tender authorized by the Bidder? (Yes/No)
(Please enclose scanned copy of the Board's resolution authorizing the person to submit the bids without which the tender will be rejected)
9. Whether business dealings with the Bidder currently stand suspended/banned by any Ministry/Department of Government of India or any State Govt. (Yes/No)

Qualification

1. Is the Bidder an OEM of the goods being offered? Yes/No
2. Is the Bidder an authorized agency/representative duly nominated by the OEM? Yes/No
(If yes, please enclose required documents as mentioned in qualification criteria)
3. Turnover of the Bidder during the past three financial years (Rs. In Crores)

2018-2019-----
 2019-2020-----
 2020-2021-----
 Average-----

(Please enclose certified published annual reports. If the accounts are mentioned in some other currency; please give the figures in that currency as well as conversion at the exchange rate on the date of filling up this form. If the accounts are managed calendar year wise, please provide figures for Last three financial year)

4. How many Equipment/Instrument, being offered, has the Bidder supplied during the past three years in India or abroad? ----- *(Please enclose documentary proof- Purchase orders and minimum three performance reports)*



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Offer

5. Make & Model Number of the Equipment/Instrument offered-----

Technical documents to be enclosed

6. Technical Literature/Brochure of the Item quoted and Clause-wise response/compliance to requirement specified in Annexure-2 of the Tender Document. You may furnish additional information/clarification, documents, etc. in support of your offer.
7. Do you have your own set up in India to provide the maintenance during and after warranty period?
8. If yes, please provide details (in 100 words) including experienced manpower & resources details and enclose relevant documents
9. If answer to question at 16 is No, do you have any agreement with any other manufacturer or reputed agency to act as Manintenance contractor to provide maintenance during warranty and post warranty period? (Yes/No)
10. If answer to question No. 18 is yes, please provide details (in 100 words) and enclose a copy of the agreement, including previous experience and manpower details of the proposed agency in maintance of similar type of equipment/Instruments.
11. Does the OEM/Its Authorized representative agree to provide Spares and Consumables for 10 years of trouble free operation and maintenance? (Yes/No)
12. Does the OEM/Its Authorized representative agree to provide After Sales Service /Post Contractual support i.e. repair, maintenance, supply of spares parts etc and will take up the post warranty AMC when asked to do so? (Yes/No)
13. Have you submitted the EMD as prescribed in Tender Document ? (Yes/No)
14. Have you enclosed the following documents? (Yes/No)
 - (a) Scanned copy of the proof for submitting EMD online on the Portal? (Yes/NO)
 - (b) Tender Accepance Form as specified in the Tender? (Yes/No)
 - (c) Documents and relevant details to establish that the goods offered conform to the requirement of the tender documents and Technical Literature/Brochure etc. (Yes/No)
 - (d) Power of Attorney of Firm/resolution of Board of Directors of company for person or persons authorized to sign the Tender; (Yes/No)
 - (e) Authorization letter by the OEM (Manufacturer) or self declaration letter by OEM (if OEM is bidding); (yes/No)
 - (f) GST Registration Certificate and latest GST deposit receipt (in case of Indian Bidder) (Yes/No)
 - (g) An Undertaking to the effect that the Price Bid does not contain any condition/options whatsoever of the price demanded for sale. (Yes/No)
 - (h) Certificate for Non-blacklisting of firm and non-registration of criminal case? (Yes/No)
 - (i) Certified published annual reports showing the turnover and financial results. (Yes/No)
 - (j) Purchase orders and Performance Reports for the offered equipment/Instruments from Government Ministries/Departments/PSUs/Scientific Institutes of National Repute. (Yes/No)
 - (k) Warranty Certificate for three years of Comprehensive Warranty. (Yes/No)
 - (l) List of spares and Consumables required for 10 years trouble free operation and maintenance along with a certificate that Spares & Consumables will be provided for at least 10 years. (Yes/No)



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(m) Duly signed and stamped Integrity pact (Yes/No)

(n) Any other documents that you consider necessary to strengthen your bid.
(Yes/No/None required)

Signature of the Bidder.....

Name

Business Address

.....

Place:

Date:



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Annexure-5

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY

Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

To,
The Member Secretary,
M. P. Pollution Control Board,
E-5, Sector, Paryavaran Parisar, Arera Colony,
Bhopal – 462016 (M.P.)

WHEREAS (Name and Address of the Supplier) (herein called “the Supplier”) has undertaken, in pursuance of contract no. dated..... To supply (Description of Goods and services) (herein called “ the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the Supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with and due performance of the contract.

AND WHEREAS we have agreed to give the Supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the Supplier, up to a total of..... (amount of the guarantee in words and figures), and we hereby irrevocably and absolutely undertake to pay you immediately, upon your first written demand declaring the Supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed thereunder or of any of the contract documents which may be made between you and the Supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

The Bank Guarantee shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this Bank Guarantee in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank or the Supplier.

The Bank further undertakes not to revoke this Guarantee during its currency except with the previous express consent of the Purchaser in writing.

The Bank declares that it has power to issue this Guarantee and discharge the obligations contemplated herein, the undersigned is duly authorized and has full power to execute this Guarantee for an on behalf of the Bank.

This guarantee shall be valid up to and including theday of 20.....

(Signature with date of the authorized officer of the Bank)
Name and Designation of the Officer
Seal, Name & Address of the Bank and Address of the Branch



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Annexure-6

PRE CONTRACT INTEGRITY PACT

Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

General:

This Pre-Bid Pre Contract Agreement (hereinafter called the Integrity Pact) is made on day of the month of.....2021, between, MPPCB, An autonomous body acting through (Member Secretary, MPPCB, Bhopal) hereinafter called the “BUYER”, which expression shall mean and include, unless the context otherwise requires, his successors in Office and assigns of the First Part and M/s represented by Shri, Chief Executive Officer (hereinafter called the “BIDDER/SELLER” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

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

WHEREAS the BIDDER is a private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER MPPCB work under the aegis of Ministry of Environment, Government of Madhya Pradesh, performing its functions as per provisions of Water Act 1974, Air Act, 1981 and EPA Act, 1986.

NOW, THEREFORE,

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

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

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

Commitments of the BUYER

1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the correct, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favor or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process to the contract.



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- 1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3 All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial of such a breach.
2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

Commitments of BIDDERS

3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:
 - 3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
 - 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavor to any person in relation to the contract with the Government.
 - 3.3 BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
 - 3.4 BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
 - 3.5 The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/integrator/authorized government sponsored export entity of the defense stores and has not engaged any individual or firm or company whether Indian to intercede, facilitate or in any way to recommend to the BUYER or any of its



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functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

- 3.6 The BIDDER, either while presenting the bid or during pre-contract negotiation or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed for such payments.
- 3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The BIDDER commits to refrain from giving any compliant directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12 If the BIDDER or any employee of the BIDDER or any person action on behalf of the BIDDER, either directly or indirectly, as a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filling of tender.
- 3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

4 Previous Transgression

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



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5 Sanctions for Violations

- 5.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required:
- (i) To immediately call of pre-contract negotiation without assigning any reason or giving any compensation to the BIDDER. However the proceedings with the other BIDDER (s) would continue.
 - (ii) The Earnest Money Deposit (in pre-contract stage) and /or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER ad the BUYER shall not be required to assign any reason therefore.
 - (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
 - (iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
 - (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.
 - (vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money (s) due to the BIDDER.
 - (vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.
 - (viii) To recover all sums paid in violation of this Pact by BIDDER (s) to any middleman or agent or broker with a view to securing the contract.
 - (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.



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- (x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 5.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1 (i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 5.3 The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor (s) appointed for the purposes of this Pact.
- 6 **Fall Clause:** The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.
7. **Facilitation of Investigation:** In case of any allegation of violation of any provisions of this Pact or payment of Commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.
8. **Law and Place of Jurisdiction:** This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat/place of the BUYER.
9. **Other Legal Actions:** The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.
10. **Validity:** The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract. Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain



M. P. Pollution Control Board

E – 5, Paryavaran Parisar, Arera Colony, Bhopal

Phone: (0755) 2466191,2517628, Email:pur_mppcb15@rediffmail.com Web:www.mppcb.mp.gov.in

valid. In this case, the parties will strive to come to an agreement to their original intentions.

11. The parties hereby sign the Integrity Pact aton.....

BUYER

Name of the Officer.
Designation
MPPCB, Bhopal

BIDDER

CHIEF EXECUTIVE OFFICER
Name of Firm/Agency

Witness

Witness

1..... 1.....
2..... 2.....



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Annexure-7

CERTIFICATE OF SUPPLY, INSTALLATION & COMMISSIONING

Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network

F. No.-----

Dated-----

1. Reference of Purchase Order-----
2. Is is certified that
 - (a) M/s Have completed the supply, installation and Commissioning of the Equipment/Instrument, Model....., Serial No..... on dated..... at designated site.....(Name of the site)
 - (b) The process of handling/taking over of the aforesaid system, accessories and services specified in the Contract to the satisfaction of the Purchaser, has been completed on dated
 - (c) The aforementioned Equipment/Instruments worked satisfactorily during the trial period of 15 days starting w.e.f(date) to (date)

For Contractor

Witness:
Signature
Name
Designation
Address
Date

For Purchaser

Witness:
Signature
Name
Designation
Address
Date



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Annexure-8

Formats of Certificate under direction issued by Ministry of Expenditure, Department of Expenditure, vide order no. F. No. 6/18/2019-PPD dated 23rd July, 2020, the Competent Authority for this purpose of registration by the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT)

Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network

- (1) I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I hereby certify that this bidder is not from such a country and is eligible to be considered."
- (2) I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that his bidder is not from such country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. (Where applicable, evidence of valid registration by the Competent Authority shall be attached.)
- (3) I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub - contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. (Where applicable, evidence of valid registration by the Competent Authority shall be attached.)

Note: Please delete which is not applicable.

Signature of the Bidder.....
Name
Business Address
.....

Place:

Date:



M. P. Pollution Control Board

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Annexure-9

UNDERTAKING

Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

To,

The Member Secretary,
M. P. Pollution Control Board,
E-5, Arera Colony, Paryavaran Parisar,
Bhopal - 462 016 (M.P.)

Sir,

Having examined the conditions of Tender Document and Specifications of the Instrument / System, the receipt of which is hereby acknowledged. We, the undersigned, offer to supply, delivery and install the following:

- 1.
- 2.
- 3.
- 4.
- 5.

(Please add additional pages, if required). The above supply, installation shall be in conformity with the specifications and conditions of supply.

We undertake if our bid is accepted to deliver the instruments quoted by us, we shall deliver and install within the period indicated by us in our offer.

We agree to abide by this bid for a period of 360 days from the date fixed for Bid opening and it shall remain binding upon us and may be accepted at any time before expiration of that period.

We are submitting an amount of Rs. towards tender fee and Rs. towards Earnest Money (EMD) online on the portal as per your conditions of tender document.

This bid, together with your written acceptance thereof in your notification of award shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this..... day of 2021

Signature of authorized Person, Name with Stamp & Full Address



M. P. Pollution Control Board

E – 5, Paryavaran Parisar, Arera Colony, Bhopal

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Annexure-10

**<Letterhead of the Manufacturer>
Form of Certificate of Country of Origin**

Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

To,

The Member Secretary,
M. P. Pollution Control Board,
E-5, Arera Colony, Paryawaran Parisar,
Bhopal - 462 016 (M.P.)

Name of the Manufacturer.....

Subject: Certificate of Origin

We, (Name of Manufacturer), hereby certify that our equipment for procurement and installation of equipment for M. P. Pollution Control Board, Bhopal is to be manufactured in the country mentioned below:

Item No.	Name of the Equipment (s)	Country of Origin

Signature

**Name of the Person
Title**

**Name of the Manufacturer
Legal Address**

Countersign of competent authority of the country of origin



M. P. Pollution Control Board

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Annexure-11

<Letterhead of the Manufacturer>
Form of Certificate of After Sales Service by Manufacturer
Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

To,

The Member Secretary,
M. P. Pollution Control Board,
E-5, Arera Colony, Paryawaran Parisar,
Bhopal - 462 016 (M.P.)

Sub.: Certificate of Supply of consumables and spares parts and Maintenance Service and Repair Work after sales by Manufacturer including Warranty support.

This is to certify that we (Name of the Manufacturer) shall supply the consumables and spare parts of the equipment mentioned below during warranty period and to provide the on-site maintenance services and repair works for the equipment after sales (hereinafter referred to as "After Sales Services") through our duly certified agent (Name of the authorized representative for after sales service) in India, existing under the law of India with its principal office of business at (Address). We hereby appoint (Name of authorized representative for After Sales Service) to cooperate with (Name of Bidder), in undertaking After Sales Service during comprehensive warranty period of three years and Operation & Maintenance (O&M) Service for at least 05 years after the warranty period of three years. It is hereby guaranteed that we shall maintain stocks of consumables and spare parts for the following equipment for the period of five (05) years including warranty O&M period and supply the said consumables and spare parts and provide the on-site maintenance service and repair works through our authorized representative for after sales service in India.

Item No.	Name of the Equipment	Name of the Manufacturer	Name of the authorized representative for after sales service and address

Signature

Name of Person

Position:

Name of Manufacturer

Legal address of Manufacturer:



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Annexure-12

Form of Equipment Details
Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

Item No.	Name of the Equipment	Proposed Model	Manufacturer	Country of Origin	Technical Catalogue Attached (Yes/No)

Signature of authorized Person, Name with stamp
Full address:



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Annexure-13

Proforma for Financial Capability of Bidder
(For a period of last three years)

Tender no. MPPCB/Pur./ 01 /2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

Bid No. Date of Opening.....

Name of the Bidder:

Year	Currency	Tunover
2018-19 Financial Year		
2019-20 Financial Year		
2020-21 Financial Year		
Total		

Note: The annual turnover amount is to be supported by annual report.

Signature of authorized person, name with stamp

Full Address:



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Annexure-14

Proforma for Performance Statement for Bidder

(For a period of last Five years)

Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

Bid No. Date of Opening

Name of the Bidder:

Order placed by (Full address of Purchaser)	Order No. & Date	Description of ordered equipment	Quantity Supplied	Value of Order	Date of Commissioning and handling over	Has the equipment been satisfactory functioning?

Note: Bidder to furnish above details for each equipment of the quoted package on separate sheet alongwith copies of work orders.

Signature of authorized person, name with stamp

Full Address:



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Annexure-15

Capability & Experience of After Sales Services

(For a period of last five years)

Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

Bid No. Date of Opening

Name of the Bidder:

Item No.	Name of the Equipment	List of Consumables available for offered equipment	List of spare parts available for offered equipments	Name of authorized representative in India for After Sales Services	Address, Tel., E.mail-id	No. of Engineers with their training details	Response time for After sales services including warranty support	Past experience of the After sales service

Note: List of applicable spares parts should be indicated for all the items in quoted package (s)

Signature of authorized person, name with stamp

Full Address:



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Annexure-16

<Letterhead of the Manufacturer>

BID FORM

Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

To,

The Member Secretary,
M. P. Pollution Control Board,
E-5, Arera Colony, Paryawaran Parisar,
Bhopal - 462 016 (M.P.)

1. Having examined the bidding documents for procurement, installation, commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring Network System, we the undersigned, offer to execute and complete the whole of the works and remedy any defects therein, in conformity with the said Bidding Documents for the sum of International trading currency (in figures.....) for the equipment including all other charges as mentioned in the document, supplied from Foreign Origin and Indian Rupees(In fig.....) for the incidental costs incurred in India (if any) as may be ascertained in accordance with the summary of Bid Price and Bid price breakup attached herewith and made part of this bid.
2. We undertake, if our Bid is accepted, to complete and deliver the whole of the works comprised in the contract within the time specified in the contract, subject to the conditions.
3. If our bid is accepted, we will obtain the guarantee of a Bank in a sum equivalent to ten (10) percent of the contract price for the due performance of the contract.
4. Unless and until a formal contract is prepared and executed, this bid, together with your written acceptance thereof, shall constitute a binding contract between us.
5. We understand that you are not bound to accept the lowest of any bid you may receive, and that you will not defray any expenses incurred by us in bidding.

Date:

Signature

Duly authorized to sign Bid for and on behalf of

(In Block Capital).....

Address.....

Facsimile number.....

Telephone No.....

Email Id.....



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Annexure-17

Bid Price Breakup for Equipment Price (For reference only)

Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

S.N.	Name of the Instrument (Number of instrument)	Model Offered by the Bidder	Qty.	Unit Price (in foreign currency/Indian Currency)	GST as applicable	Freight and concessional custom duty if applicable	Total Amount
1.	Noise Monitoring Terminal (NMT)						
1.1	IEC 61672-1(2002-05) Class 1: Outdoor Microphone						
1.2	NMT System with alphanumeric display						
1.3	High gain GSM/GPRS Antenna (8 DB dual band antenna)						
1.4	IP-65 or equivalent compliant Enclosure for Remote Stations						
1.5	Transmission unit - GSM/GPRS Modem						
1.6	Intrusion alarm to be transmitted at central station						
2.	Power Back-up						
2.1	External Battery (Minimum 65 AH) sealed maintenance free						
2.2	Solar Panel for Power Back Up (Minimum 75 watts)						
2.3	Solar charge controller (minimum 20 Amp)						
2.4	External NEMA 4 Enclosure)						
3.	Recurring Charges						
3.1	Remote station recurring charges on yearly basis including SIM cost, number of stations recurring cost and any other cost						
3.2	Recurring Charges on Yearly basis for Central Server wit 4 Mbps fixed IP Connection						
3.3	Remote display, GPRS receiving charges on yearly basis (35 nos.)						
4	Central Receiving Station						



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4.1	Charges for Empaneled Cloud Based Server						
4.2	Analysis Software with full graphics display, communication management and database generation for Cloud based server						
4.3	Web Enabled Software for data distribution						
5	Installation and Civil Work						
5.1	4 meters triangular lattice mast and mounting accessories						
5.2	Installation of the remote stations with Civil work						
6	Calibrators						
6.1	Hand held stand noise system with transportation kit						
6.2	External acoustic calibrator with microphone adaptor						
7.	Transportation and Insurance						
7.1	Transportation and Insurance of material to respective sites						
8.	Two Years Extended Warranty						
9	Operation & Maintenance (O&M) Charges						
9.1	For First Year						
9.2	For 2nd Year						
9.3	For 3rd Year						
9.4	For 4th year						
9.5	For 5th Year						

Signature of Authorized Person, Name with stamp

Full Address:



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Annexure-18

LIST OF DELIVERABLES Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

S.No.	List of Deliverable Items	Qty.
1.	Noise Monitoring Terminal (NMT)	
1.1	IEC 61672-1 (2002-05) Class 1 or equivalent : Outdoor Microphone	
1.2	NMT system with alphanumeric display	
1.3	High gain GSM/GPRS Antenna (8 DB dual band antenna)	
1.4	IP-65 or equivalent Enclosure for Remote Stations	
1.5	Transmission unit – GSM/GPRS Modem	
1.6	Intrusion alarm to be transmitted at Central Station	
2.	Power Backup	
2.1	External Battery (minimum 65 AH) sealed maintenance free	
2.2	Solar Panel for Power Back up (Minimum 75 Watts)	
2.3	Solar charge controller (Minimum 20 Amp)	
2.4	External NEMA 4 Enclosure	
3.	Recurring Charges	
3.1	Remote station recurring charges on yearly basis including SIM cost, 04 recurring cost and any other cost	
3.2	Recurring charges on yearly basis for Empaneled Cloud Based Server	
3.3	Remot Display, 4G/5G receiving charges on yearly basis (04 Nos.)	
4.	Central Receiving Station	
4.1	Analysis Software with full graphics display, communication management and database generation for Central Receiving Station	
4.2	Web enabled Software for data distribution	
5.	Installation and Civil Work	
5.1	04 Meters triangular lattice mast and mounting accessories	
5.2	Installation of the remote stations with Civil Work	
6.	Automatic Backup	
6.1	04 TB NAS Drive for incremental backup of existing and new system	
7.	Calibrators	
7.1	Hand held statnd noise system with transportation kit	
7.2	External acoustic calibrator with microphone adapter	
8.	Transportation and insurance	
9.1	Transportation and Insurance of material to respective sites	
10.	Two Years extended Warranty	
11.	Operation and Maintenance (O&M) Charges	
11.1	Operation and Maintenance (O&M) Charges for First Year including warranty	
11.2	Operation and Maintenance (O&M) Charges for Second Year including warranty	
11.3	Operation and Maintenance (O&M) Charges for Third Year including warranty	
11.4	Operation and Maintenance (O&M) Charges for Forth Year including warranty	
11.5	Operation and Maintenance (O&M) Charges for Fifth Year including warranty	
12	Optional Items (Not to be added in price comparison)	
12.1	Residential Manager cost per month	



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Annexure-19

LIST OF MONITORING STATIONS

Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

S.N.	City	State	Zone	Location	Latitudes	Longitudes
1	Bhopal	Madhya Pradesh	Residential	Paryawaran Parisar, E-5, Arera Colony, Bhopal	23°12'34" N	77°25'23" E
2.			Commercial	Mrugnayani Hamidia Road, Bhopal	23°15'47" N	77°24'38" E
3.			Industrial	C.E.T.P. Goving Pura, Industrial Area, Bhopal	23°16'08" N	77°27'06" E
4.			Silence	Civil Hospital Bairagad, Bhopal	23°16'20" N	77°20'24" E



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Annexure-20

INDEMNITY BOND FOR HANDING OVER REAL TIME AMBIENT NOISE MONITORING SYSTEMS INCLUDING ALL EQUIPMENT TO THE O&M CONTRACTOR

This Indemnity Bond is made this Day of 20..... By.....a Company registered under the Companies Act, 1956/Partnership firm / Proprietary concern having its registered office at

(hereinafter called as “Contractor” or “obligator” which expression shall include its successors and permitted assigns) in favour of M. P. Pollution Control Board with Office at (M.P.) which term shall include permitted assigns and successors, (hereinafter called “MPPCB” which expression shall include its successors and assigns).

Whereas MPPCB has awarded to the Contractor, a contract for O&M of the four nos. of Real Time Ambient Noise Monitoring System (RTANMS) located at

-----, vide its Letter of Indent / Award Letter / Contract No..... dated (hereinafter called the “Contract”), in the terms of which Contractor shall be responsible for the Equipments to be handed over to it by MPPCB for the purpose of performance of the Contract (hereinafter called the “Equipments”).

Now, therefore this Indemnity Bond witnessed as follows:

1. That in consideration of various Equipments as mentioned in the Contract, valued at Rs.----- (Rupees.....) to be handed over to the Contractor for the purpose of performance of the Contract, the Contractor hereby undertakes to indemnify and shall keep MPPCB indemnified, for the full value of the Equipment. The Contractor hereby acknowledges receipt of the Equipments as per details in the Schedule appended hereto.
2. That the Contractor is obliged and shall remain absolutely responsible for the safe custody of the Equipments at Real Time Ambient Noise Monitoring System (RTANMS) belonging to MPPCB against all risks whatsoever till the Equipments are duly used in accordance with all terms of the Contract. The Contractor undertakes to keep MPPCB harmless against any loss or damage that may be caused to the Equipment.
3. The Contractor undertakes that the Equipments shall be used exclusively for the performance/ execution of the Contract strictly in accordance with its terms and conditions and no part of the Equipments shall be utilized for any other work or purpose whatsoever. It is clearly understood by the Contractor that non-observance of the obligations under this Indemnity Bond by the Contractor shall inter-alia constitute a criminal breach of trust on the part of the Contractor for all intents and purposes including legal / penal consequences.
4. That MPPCB is and shall remain the exclusive Owner of the Equipment free from all encumbrances, charges or liens of any kind, whatsoever. The Equipments shall at all times be open to inspection and checking by Project-in-Charge MPPCB shall always be free at all time to take possession of the Equipments in whatever form the equipments may be. If in its opinion, the equipments are likely to be endangered, misutilised or converted to uses other than those specified in the Contract, by any act of omission or commission on the part of the Contractor; he finds itself and undertakes to comply with the direction or demand of MPPCB to return the Equipments without any demur or reservation.
5. That this Indemnity Bond is irrevocable. If at any time any loss or damage occurs to the Equipments or the same or any part thereof is mis- utilised in any manner whatsoever then the Contractor hereby agrees that the decision of the Project-in-Charge of MPPCB as to



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assessment of loss or damage to the Equipments shall be final and binding on the Contractor. The Contractor binds itself and undertakes to replace the lost and / or damaged Equipments at its own or remedy that may be available to MPPCB against the Contractor under the Contract and under this Indemnity Bond.

6. Now the condition of this Bond is that if the Contractor shall duly and punctually complies with the terms and conditions of this bond to the satisfaction of MPPCB, then the above bond shall be void, but otherwise, it shall remain in full force and virtue.

In witness whereof, the Contractor has hereunto set its hand through its authorized representative under the common seal of the company, the day month and year first above mentioned.

SCHEDULE NO. 1

Particulars of the Equipments handed over	Quantity	Value of the Equipment	Signature of Authorised Person

For and on behalf of
M/s.....

Witness I

1. Signature
2. Name
3. Address

Name
Signature
Designation
Authorized representative

Witness II

1. Signature
2. Name
3. Address

(Common Seal)
(In case of Company)



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Annexure-21

CHECK LIST

Tender no. MPPCB/Pur./01/2020-21

(Supply, Installation, Commissioning and Operation & Maintenance of Real Time Ambient Noise Monitoring System Network)

S.No.	Description of Documents	Page No.
1.	Earnest Money (EMD) submitted (Rs.....)	
2.	Tender Fee Submitted (Rs.....)	
3.	Technical Compliance (including make & Model of the quoted equipment) in Annexure-2	
4.	Manufacturer's Authorization Form in Annexure-3	
5.	Technical Acceptance Form in Annexure-4	
6.	Pre-contract Integrity Pact in Annexure-6	
7.	Format of Land Border share in Annexure-8	
8.	Undertaking in Annexure-9	
9.	Format for Country of Origin in Annexure-10	
10.	Format for After Sales Service in Annexure-11	
11.	Format for Equipment Details in Annexure-12	
12.	Format for Financial Capability in Annexure-13	
13.	Format for Performance Statement in Annexure-14	
14.	Format for Capability & Experience of After Sales Service in Annexure-15	
15.	Bid For in Annexure-16	
16.	Format for List of Deliverables in Annexure-18	
17.	Copy of GST Registration	
18.	Copy of Income Tax Registration (PAN)	
19.	Copy of Printed Leaf Let/Brochure from OEM indicating all technical specification as offered	
20.	Copies of Purchase Orders/Performance Certificates	
21.	Undertaking regarding not being Black Listed	
22.	Users List	
23.	Service Stations in Madhya Pradesh/India	
24.	Copy of ISO/BIS Certificate	
25.	Company Profile including turn over during last three financial years duly certified from chartered accountant.	
26.	Terms and Conditions	
27.	Bank details including Account no., IFSC etc. for payment through RTGS/NEFT	

Signature of Authorized Person, Name with stamp

Full Address:



M. P. Pollution Control Board

E – 5, Paryavaran Parisar, Arera Colony, Bhopal

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ATTACHMENT-2

BASIC NETWORK ARCHITECTURE AND LAYOUT OF NOISE MONITORING STATION

