



**KERALA STATE POLLUTION
CONTROL BOARD**

Pattom P.O., Thiruvananthapuram- 695 004

Phone: 0471- 2312910, 2318153, 2318154

email: ms.kspcb@gov.in

No. PCB/HO/AEE-3/CANM/04/19 Date: 21/01/2020

E-TENDER NOTICE

E-Tenders are invited from reputed agencies for Supply, Installation & Commissioning of Real Time Noise Level Measuring Station with Digital Display Board and Networking System at Thiruvananthapuram and Ernakulam. Details are available in the site, www.etenders.kerala.gov.in, www.keralapcb.nic.in.

Tender id: 2020_KSPCB_337255_1

Sd/-

MEMBER SECRETARY

TENDER NOTICE

For

**Supply, Installation & Commissioning of Real Time
Noise Level Measuring Station with Digital Display
Board and Networking System for Kerala State
Pollution Control Board**



KERALA STATE POLLUTION CONTROL BOARD

Pattom

Thiruvananthapuram-695004

www.keralapcb.nic.in

Kerala State Pollution Control Board

TENDER NOTICE

INTERNATIONAL COMPETITIVE BIDDING

Supply, Installation & Commissioning Continuous Real Time Noise Level Measuring System (RTNLMS) with digital display board & its Centralized Networking System for Kerala State Pollution Control Board

File No: PCB/HO/AEE-3/CANM/04/19

Sub: Inviting Tender for Purchase of Continuous Real Time Noise Level Measuring System (RTNLMS) & its Centralized Networking System along with supply of Digital Display Board

Kerala State Pollution Control Board (KSPCB) intends to install **Continuous Real Time Noise Level Monitoring Station (RTNLMS)** and Online Digital Display Board (ODDB) two stations each at Ernakulam and Thiruvananthapuram, Kerala. On behalf of the **Member Secretary** Kerala State Pollution Control Board **Pattom P.O. Thiruvananthapuram - 695 004** invite bids from the manufacturer/supplier in India or Abroad for the Supply, Installation, Operation and Management of Continuous Noise Quality Monitoring/Sampling Station to install two stations each at Ernakulam and Thiruvananthapuram, Kerala. KSPCB expects from the successful bidder to Operate and Maintain the system continuously on 24 hrs a day and 365 days in year under the Comprehensive Annual Maintenance Contract (CAMC) both during warrantee and non warrantee period. The minimum warrantee period for the entire system shall be for three years. The warrantee period starts from the date of successful installation of the monitoring system are for three years and another two years is for CAMC. The measured values of various parameters like Lmin, Lmax and Leq dB(A) with an user average values as specified by the KSPCB shall be displayed through display board on a real time basis for 24 hours a day and 365 days a year. The screen size of LED digital display board or TV having weather proof facility shall be of approximately 2ft x 3ft, installed at

the identified locations. The values of various parameters measured in the monitoring station shall be transferred instantly/automatically through online and stored in the central server networking system provided at the Head Office of KSPCB, Thiruvananthapuram.

A. Scope of the Project:

1. Supply, Installation & Commissioning of **four numbers of Continuous Real Time Noise Level Monitoring Station(RTNLMS)** with Digital Display Board at identified locations in Ernakulum and Thiruvananthapuram District by Kerala State Pollution Control Board and its Networking connectivity through Centralised System.
2. The Service Provider shall undertake the activities like visits to the identified sites, construction of suitable civil works, supply and installation for fixing Real Time Noise Monitoring System, Digital Display Boards. All the data generated from the station should be connected with Data Acquisition system and transferred to Central Networking System of KSPCB and CPCB.
3. Service Provider shall undertake responsibility of reporting of data time to time to Kerala State Pollution Control Board (KSPCB) during warrantee period and shall also under take Comprehensive Annual Maintenance Contract (CAMC) for another two years in which reporting of data is included. The contract is extendable on satisfactory performance.
4. Condition for Payment: Payments shall be made purely based on quality and quantity of data on timely submission. The operator in addition to reporting data regularly shall submit quarterly data for release of payment. Quarterly data shall be further validated on applying all plausibility checks by the officials of Kerala State Pollution Control Board. The proportionate amount to be released is based on quantum of validated data. No other payment shall be paid under this project.

B. Eligibility Criteria for Submission of Bid/Quote:

1. The bidder shall be Original Equipment Manufacturer (OEM) or authorized dealer /supplier/distributor in India or Abroad for which supporting documents shall be attached.
2. Preference will be given to those who have more years of experience in operation, maintenance and calibration of centralized continuous real time noise level monitoring stations (RTNLMS) with display system.

3. Should have supplied and installed at least 1 no of Continuous Real Time Noise Level Monitoring Station (RTNLMS) with display system either in the country or outside the country in the last 5 years from the date of tender opening. (copy of supply orders shall be enclosed)
4. Should have operated and managed similar stations elsewhere in the country/outside the country. (Copy of O & M contract and list of suppliers shall be enclosed)
5. Should have experience in computer integration with the ability to display the values of various parameters and to connect with the central server of KSPCB and CPCB on a real time basis
6. Should accept to depute trained personal to operate and maintain the monitoring station RTNLMS effectively. Number of persons and their testimonials should also be enclosed along with the proposal.
7. On submitting above mentioned qualification criteria, the bidder shall also qualify with the points mentioned in the pre-bid qualification format enclosed in the annexure-I. If pre qualification criteria found to be not qualified, the bidder shall be disqualified automatically and further evaluation of technical bid shall not be considered.
8. In case bidder is not Original Equipment Manufacturer (OEM), the bidder must attach the OEM authorization certificate to quote/submit the bid on behalf of OEM. The bidder must also submit certificate of system support from OEM.
9. Bidders should have total turnover of minimum Rs 10 lakhs in last three financial years for supply of noise instruments or project of similar nature (atmosphere and environment) in India/abroad.
10. The bids will be rejected in case, bidders do not meet all the above qualifying conditions without any further processing.

C. Schedule of Down loading of Bid Documents and Submission:

1. Complete set of bidding documents, technical specifications, compliance sheet and formats shall be downloaded from <https://etenders.kerala.gov.in> also available in official web site of Kerala State Pollution Control Board i.e. www.kspcb.nic.in from the date 20.01.2020 to 3.02.2020. Bids/Quotes shall be submitted only through online as per the schedule for publishing, submission and opening prescribed in the below mentioned **Critical Date Sheet (CDS)**:

Critical Dates of Schedule (CDS)

Sl.No.	CDS- Details of Schedule	Day	MM	Year	Hr	Mins
1.	Published Date	20	01	2020	17	00
2.	Bid Documents Down Load Start Date	20	01	2020	17	00
3.	Bid Documents Submission Start Date	20	01	2020	17	30
4.	Bid Documents Submission End Date	3	02	2020	15	00
5.	Technical Bid Opening Date	4	02	2020	15	00
6.	Bid Opening Address	Kerala State Pollution Control Board, Pattom P.O. Thiruvananthapuram - 695 004				
7.	Note: Board Prefers Onsite demonstration from Each Bidders before Opening of Financial Bid					

2. Intending bidders are advised to see <https://etenders.kerala.gov.in> and www.kspcb.nic.in regularly till the closing date of submission of tender for any corrigendum /addendum/ amendment
3. An amount of Rs.2500/- (Rupees Two thousand five hundred only) shall be paid through online towards tender fee.
4. The Quote shall be submitted in Two Parts, viz., Technical Bid and Price/commercial Bid separately through online only. The detailed technical specification of the scope of the project is enclosed in Annexure-II and III.
5. The Technical Bid documents uploaded in the e-portal, same of the hard copy shall also be submitted to this office by post/person before the last date of submission as mentioned in the schedule of Critical Date.
6. The technical specifications compliance format also enclosed in annexure –II & III which shall be duly filled by the bidder and submitted.
7. All the pages of Technical Specifications, Supporting documents/ Brochures of the bid must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading. The offers submitted by Telegram/Fax/email shall not be considered.

8. Intending Bidder should submit the entire formats attached herewith in annexure- I- to VII duly filled with supporting documents.
9. Schedule of price bid format is enclosed in Annexure-V which shall be submitted in excel format.
10. Rates and applicable taxes and other charges shall be mentioned separately. No other charges will be accepted later other than the mentioned in the financial quote.
11. Specifications which meet the requirements shall be considered for technical comparison and preference will be given to those who submit superior specifications, higher period of warrantee.
12. The quantity mentioned in the tender document may be increased or decreased at the discretion of the Competent Authority in the Kerala State Pollution Control Board without assigning any reason.
13. The validity of bid is 120 days from the date of financial bid opened
14. The bidders shall strictly follow the general terms and conditions of tendering through e-procurement
15. For any technical clarification Member Secretary, Kerala State Pollution Control Board may be contacted for further information.
16. In the event of any dispute, the decision of Chairman, Kerala State Pollution Control Board will be the final and binding upon both the parties.

Yours Sincerely

**Sd/-
Member Secretary**

Section-1

1. Introduction

Kerala State Pollution Control Board (KSPCB) is in the process of developing Noise Level Measurement/Monitoring Network in state of Kerala and has planned for installation of standalone unmanned remote Real Time Noise Level Measuring (RTNLMS) and its Network in Ernakulum and Thiruvananthapuram District, Kerala (4 stations). Tenders are invited on behalf of the Member Secretary, Kerala State Pollution Control Board from Manufacturer/Suppliers in India and Abroad for the supply of Continuous Real Time Noise Level Measuring System (RTNLMS) or Continuous Real Time Noise Level Measuring Terminal (RTNLMT) with weather proof Digital Display Board/TV.

2. General Terms and Conditions

- i. The Tender Document is not transferable by the purchaser. Documents/forms downloaded from the net can also be used. Bids made on photocopy etc. will not be considered. Each sheet submitted by the bidder need to be signed including annexure provided by the Board with this document.
- ii. Bidders shall submit the **tender fee of Rs. 2500 (Rupees Two thousand and five hundred only) online** with the technical bid of the tender. The tender without requisite tender fee will be rejected.
- iii. The bid shall contain **Earnest Money Rs.50,000 (Rupees Fifty thousand only)**, full information required to judge pre-qualification, specification of the instruments offered for which a supporting leaflets and catalogues, list of credentials with documentary evidence i.e., copies purchase/work order etc., Income Tax Clearance Certificate, PAN No., Vat/Sales Tax Registration No., Affidavit for not being black listed, Commercial Terms & Conditions etc.
- iv. Bidders shall upload separately the duly filled format of "Pre-Qualifications Criteria as mentioned in Annexure -I, duly filled Format of Technical Specification Compliance Criteria as mentioned in Annexure –II&III And format of duly filled Price/Commercial Bid as mentioned in Annexure –V for supply of Real time Noise Monitoring Systems.
- v. Documents, literature, diagrams/leaflets, or any supporting documents etc., enclosed in the bid shall become the property of the KSPCB without any payment.
- vi. The price bid shall be submitted in excel format as enclosed herewith at Annexure- V

- vii. The Board takes no responsibility for delay or non receipt or partial submission of Tender Document and also reserves the right to accept; or reject any or all the tenders in part or full without assigning any reason thereof.
- viii. Tender documents uploaded before the last date of specified period and time shall only be accepted. Submission/Uploading of tender document after the last date and time shall not be accepted.
- ix. The bidder is expected to examine all instructions, forms, terms and conditions and specifications mentioned in the bidding document. Failure to furnish all information required as per the bidding documents or submission of a bid substantially irresponsible to the bidding document in every respect will be at the bidder's risk and may result in the rejection of its bid.
- x. This call of tender does not bind the KSPCB to place order. The Tenders submitted in response to this invitation may be rejected without assigning any reason.
- xi. The tender notice, tender forms, schedule of requirements, specification etc are available on <https://etenders.kerala.gov.in> and www.kspcb.nic.in
- xii. The Board at its discretion may extend the last date of submission of tender and opening of tenders.
- xiii. The final authority for acceptance of a Tender will rest with the Chairman, Kerala State Pollution Control Board who does not bind himself to accept the lowest tender and is vested with this authority to reject any or all of the tenders received without assigning any reason.
- xiv. In case, the date of opening of Tender is declared as Public Holiday, the Tender shall be opened on the next working day at the same time. The bidders shall strictly follow the general terms and conditions of tendering through e-procurement
- xv. The bidder is expected to examine the bidding documents carefully and is deemed to have received and read all documents. It shall be the responsibility of the bidder to request the copies of any missing documents. Failure to do so will be at bidder's risk.
- xvi. It may be noted that mere quoting lowest rates will not entitle any firm to get the order. The quality of the item being offered, the past performance supply etc. will also be taken into consideration. Prior to award of purchase order the buyer can call any details, explanation regarding technical & financial aspect.

3. Submission of Bid/Quote

- I. There shall be a three bid in single stage submission.
- II. The bid must accompany duly filled in the format of 'Pre-Qualifications Criteria' as mentioned in Annexure -I, duly filled Format of Technical Specification Compliance Criteria as mentioned in Annexure –II ,III and duly filled format of Price/Commercial Bid as mentioned in Annexure –V and signed by the Bidder along with the seal of the Firm.
- III. The supplier should submit technical bid without mentioning any cost/price to assess the item/components based on merits of technical specifications quoted in the bid.
- IV. The price bid shall be quoted separately in which it is requested to quote excise duty, import duty and total price of each instrument separately indicating tax, freight, insurance, transportation charges and their installation charges. Necessary excise duty exemption certificate as applicable will be supplied.
- V. The price to be given in the Tender are fixed prices, irrespective of rise in Materials prices till complete the delivery of items. No request in regard to increase in the price of instruments will be entertained after the submission of the tender. Taxes shall be at prevailing rate at the time of supply of the material
- VI. Based on the qualifying criteria mentioned in prequalification and technical specifications, the bidders may be called for demonstration of instruments as part of proof of technology and its capability before opening the financial bid.
- VII. Arithmetical error will be rectified on the following basis: - If there is discrepancy between the unit price and total price that is obtained by multiplying the Unit Price and quantity, the unit price shall prevail and the total price shall be corrected. If there is discrepancy between words and figures, the amount mentioned in words will prevail.
- VIII.** The specifications are clearly mentioned in the document and the Bidder are 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. **Bids carrying the statement like "specification as per tender document" shall not be entertained. The product specifications supported by technical literature and list of users must be enclosed.**

4. Responsibility of Bidder:

- I. The placement of work order/purchase order will be according to technical evaluation of the Tender and after consideration of its price worthiness.
- II. Supply, install, establish and operate Continuous Noise Level Quality Monitoring Stations with real time data display of values of noise parameters in Ernakulam and Thiruvananthapuram of Kerala State.
- III. The installation of entire monitoring system and its supporting civil structure at the respective site is the entire responsibility of the supplier. It must be done either by the principal/supplier or their authorized agents strictly within duration specified in this document on the receipt of the instruments by the Board. The supplier or Agent should be in touch with the KSPCB to know the exact day of receipt of materials supplied/dispatched.
- IV. The bidder should provide a complete list of spares, consumables required for three years trouble free operation and maintenance of the instruments.
- V. The bidder should be attentive for any call to rectify the fault occurring in the monitoring system immediately and ensure trouble free operation of the system. The Bidder should provide full information of its local agents/censors in India.
- VI. Bidder shall ensure periodical manual calibration on monthly basis and to submit the calibration certificate. Supplier shall provide monthly schedule of visit to the monitoring station.
- VII. Bidder shall ensure that the instrument must work properly under temperature (50⁰C) or more and tolerant to extreme environmental conditions in India.
- VIII. The bidder seller/local representative shall have full responsibility to transport the entire monitoring system at the proposed locations by KSPCB. All the local taxes and duties will be paid by the bidder/supplier.
- IX. Recurring charges of remote stations such as SIM cost, Internet connection cost etc. shall be paid by the bidders .
- X. The foreign bidders must indicate the following information in the technical bid as well as price Bid separately for each instruments /equipment quoted offered:

- Country of Origin
- Port of Shipment
- Name & Address of beneficiary Bank, Branch Name with Account No.

- Minimum delivery period
 - Whether transshipment /partner shipment is required or not.
 - Agency commission, if any payable to the Indian Agent, their complete address, telephone & Fax number.
- XI. Foreign Principals/their authorized Indian Agent shall intimate the buyer regarding the date of shipment well in advance. A copy of the invoice documents, air way bill, packing list, certificate of country of origin may be forwarded to the purchaser by fax/ E-mail immediately after shipment of the consignment to clear from custom authorities so as to avoid demurrage charges.
- XII. The prices must be quoted item wise i.e. basic price as per the price bid schedule enclosed. The charges must be quoted clearly and not in vague terms like “As Actual”, “Approx”etc.
- XIII. In case of Indian Suppliers, the instruments are to be dispatched to the respective places directly and to be installed there, by the supplier under intimation to, respective officials of KSPCB, Thiruvananthapuram. The Supplier shall be liable for any damage, theft or loss during the transit. Please note that Performa Invoice must be separate for each instrument /item.
- XIV. In the case of proprietary item, the proprietary certificate issued by the principal/manufacturer should be attached along with the technical bid. In that case, the bid of the sole distributor will only be considered.
- XV. A copy of the latest supply order (showing details of price) executed to any other Govt. Departments in India or abroad should be attached along with the price bid.
- XVI. If the instrument supplied is found defective/unsatisfactory condition/short supply/other than specifications in the Purchase Order, the same will have to be replaced at the suppliers risk and cost. No freight and other charges for replacement will be paid by the Board.
- XVII. The minimum warranty period expected is three years. However the exact warrantee period for each items shall be quoted clearly by the bidder
- XVIII. An Earnest Money Deposit of Rs 50,000 (Rupees Fifty thousand only) shall be paid through online.
- XIX. The earnest money of unsuccessful bidder/firms will be refunded automatically into their own account.
- The earnest money deposit of successful firm may be returned after the successful installation and commissioning of the system.
- XX. Security Deposit –The successful bidder shall remit a security deposit of 5% of the Bid value within 15 days of award of contract.

XXI. Agreement-The successful bidder shall execute an agreement on a non judicial Kerala Stamp paper of value Rs.500 (stamp duty to be paid by the bidder) within 15 days from the date of information that the bids has been accepted.

5. Training to the officials of KSPCB:

1. The manufacturer / supplier should provide in-depth training to eight officials for two working days which include operation and maintenance of hardware system, handling of software and data acquisition and transfer of data and compilation to the officials of KSPCB.
2. The Bidder shall furnish the schedule and program of the training to the KSPCB within 30 days after the notification of award in such a manner that proper training is imparted to Board staff members.

6. Warranty And Maintenance

1. The manufacturer should provide a comprehensive warranty of at least three years after commissioning of the system in the field. The manufacturer should take on the work of servicing and routine maintenance of field equipment once in a month. Response time for rectifications of faults in the field Remote station equipments should not be more than 48 hours.

7. Penalty For Delay In Supply, Install and data quality and Capture Rate:

1. Successful bidder shall ensure that the installation shall be completed within a period of 2 months from the date of signing the agreement or 1 month from intimation of handover of land in each of the four locations, whichever is later. Any delay in commissioning beyond this period, shall result in imposition of a penalty of a sum equivalent to 1% of the delivered price for each week of delay until completion of installation, up to a maximum of 10% of the contract prices after which the KSPCB may consider termination of the contract at the risk and cost of the bidder.
2. If the down time is more than two days, the warranty period will be presumed to be extended by a period twice the down time.
3. If data capture rate for a station is found to be less than 90% in a year, there will be a proportionate deduction from the payment.

4. The display and all data shall be made available on a 24x7 basis 365 days a year. A maximum of 28 days can be permitted for any type of breakdown, service, calibration per year subject to a maximum grace period of 7 continuous non working days only once in a quarter (3 months). In case of breakdown beyond the grace period, Rs 1000/-per sound level meter (SLM) /Solar power system/ data logger per day shall be charged. If the data not displayed in the allocated display board for five continuous days including the non- working days once in a quarter beyond which Rs.1000/- per day shall be charged. The total penalty per year if exceeds 30% of the O & M cost per year, the contractor has to replace the faulty items with new one on his own cost with immediate effect, failing which the KSPCB shall have a right to terminate O & M contract and to initiate legal proceedings. Failure due to electrical power outage from Electricity Board/department and other force major conditions shall be considered for levy of penalty.

8. Comprehensive Annual Maintenance Contract (CAMC)

1. The total period of CAMC is five years including warrantee and non warrantee. Vendor must quote for the CAMC separately. Vendor will be responsible for the communication of data generated from remote station to central receiving station and other nodes during warranty and CAMC period. Bidder will be responsible for operation and maintenance of the instrument therefore, the supplier shall submit the price bid separately for the warrantee (3 years) and non-warrantee period (2 years).

9. Payment condition

1. For the supply and installation of monitoring station, the payment will be released in two parts 80% on supply and balance (20%) on successful installation and commissioning. In case of imported items the LC shall be opened by KSPCB if the suppliers provide required documents.

10. Documentation

1. The manufacturer should provide detailed manuals for operation, trouble shooter, preventive materials, servicing and maintenance of each sub system including all block diagrams and detailed circuit diagrams, components used in the system should also be provided.

11. Compliance / Non-Compliance Statement

1. The tenderer shall submit a detailed item-wise compliance / non-compliance statement referring para-wise to the requirements given in this document, for quick evaluation of tender and for any future reference.
2. The compliance statement shall be supported by original brochure(s) of the equipment or sub component from the manufacturer. In case the original brochure is silent on any part of tender specification, it shall be supported by an undertaking by the manufacturer, if claimed complied.
3. The technical specifications and other requirements contained in this document are essentially required by the indenter. However, reasons for non- compliance, if any, for certain limited paras, or even sub-paras of the document may also be given by the tenderer.
4. Silence on any part of the technical specification or failure / omission to provide any such details will be treated as non-compliance. All non-compliance of specifications, even of small nature, should be clearly brought out.

12. RELIABILITY

1. In general, it is desired that sound level meter (SLM) should be capable of operating for 3 years without physical technical intervention. SLM and Data logger system should have built-in performance checks and indicators which should be utilized whenever possible.

13. ROLES & RESPONSIBILITIES, OBLIGATIONS:

13.a Kerala State Pollution Control Board(KSPCB)

- a. The monitoring location and the Equipment after the procurement will be owned by KSPCB, though the supply, installation, operation, maintenance etc. are carried out by the successful bidder.
- b. KSPCB will provide appropriate space to install these real time noise level monitoring station and power supply and other data transfer connectivity lines.
- c. Ownership and Intellectual Property Rights for the database generated shall remain with the KSPCB.
- d. KSPCB also retains the right to require the successful bidder to adhere to certification by any

certified or accredited by any national / international organization later if required.

- e. KSPCB shall release the payment based on the quantum of validated data on imposing appropriate penalty for non working or not valid data as per the MoU executed
- f. Providing service line for electricity and telephone at the time of installation is the responsibility of KSPCB. However, Electricity charges, internet charges and insurance shall be within the scope of the successful bidder. The electricity, telephone and internet charges during the operation will be paid by the Kerala State Pollution Control Board and the same shall be deducted from the CAMC amount of bidder. Obtaining insurance every year for the entire system is the responsibility of bidder

13.b Successful Bidder:

1. The successful bidder shall ensure the following: Supply, install, establish and operate Continuous Noise Level Quality Monitoring Stations with real time display of values of noise parameters in Ernakulam and Thiruvananthapuram of Kerala State. The data generation and the display shall be made available on a 24x7 basis 365 days a year. A maximum of 28 days can be permitted for any type of breakdown, service, calibration per year subject to a maximum grace period of 7 continuous non working days only once in a quarter (3 months). In case of breakdown beyond the grace period, Rs 1000/-per SLM/Solar power system/ data logger per day shall be charged. If the data not displayed in the allocated display board for five continuous days including the non- working days once in a quarter beyond which Rs.1000/- per day shall be charged. The total penalty per year if exceeds 30% of the O & M cost per year, the contractor has to replace the faulty analyzer with new one on his own cost with immediate effect, failing which the KSPCB shall have a right to terminate O & M contract and to initiate legal proceedings. Failure due to electrical power outage from Electricity Board/department and other force major conditions shall be considered for levy of penalty.
2. A list of accessories and test equipment along with their cost should also be submitted by the manufacturer along with the offer.
3. The manufacturer should also quote for all the required supporting structures, housings masts, shelters etc along with the main equipment.

4. All the equipments shall be installed and brought into suitable conditions for operation by the supplier at the sites designated by the Board.
5. The supplier shall make all the necessary and proper adjustments and arrangements, including the utility supplies and connections, foundation and erection work in order to install the Equipment in adequate conditions for operation.
6. Only the best installation practices are to be applied, and all the installation works must be done to the satisfaction of the Board and the supplier shall carry out his works in a neat and proper workman manner.
7. The installation shall be planned and carried out in such a way so as not to damage installation materials and the Equipment. All the installing Equipments, tools, materials, labour, logistics and all the other requirements for installation shall be provided by the Supplier.
8. Bidder shall depute Engineer/supervisor for onsite assembly, installation, commissioning and start up of the supplied equipment. Bidder should offer the complete system with complete turnkey implementation including installation testing and commissioning to the satisfaction of KSPCB officers. The equipment will be installed at KSPCB's identified sites. The installing mast and civil work will depend upon the requirement of the site. The minimum Height of Mast can be upto 4 m. or as per site requirement and material is of GI pipe adjustable in length and should be rust and weather proof.
9. Foundation of Mast (as per requirement): 2x2x2 cubic ft. RCC block is to be constructed for fixing of 4m mast. However, vendor may quote the 4 meters Pole mast with civil work for foundation within the sites provided by the KSPCB.
10. Provide technological, leadership, administrative and managerial support as the Partner in an open and transparent manner to produce mutually agreed outcomes.
11. Provide the Application Software for the project and the hardware components. The successful bidder shall also update the software periodically as per requirement.
12. Recruit, train and position required man power, who will be responsible for the trouble free operation of the system. Atleast one operator having minimum diploma in Electronics/Electrical/Instrumentation for each station and one supervisor having M.Sc/BE qualification in Instrumentation with adequate experience in the field of Instrumentation and

Environment are required.

13. Provide daily technical reports and weekly consolidated operational reports.
14. Update of technology, service excellence and work towards improving system to global standards over a period of time.
15. Calibration through a standard calibrators should be carried out once in a month and the same shall be reported to KSPCB.
16. Warranty period for the equipment shall be minimum three year from the date of successful commissioning of the entire system. The bidder should provide details of comprehensive AMC and operation support including arrangement for consumables

14. Clarifications:

Organization requiring any clarification on the tender document may notify KSPCB in writing at:

ATTN. OF: Member Secretary
Kerala State Pollution Control Board , Head Office
ADDRESS: Plamood, Pattom P.O., Thiruvananthapuram 695004
Phone: 0471 2318153, 54, 55
Fax: 0471-2318152,2318134
E mail: ms.kspcb@gov.in, see1kspcb@gmail.com

The website <https://etenders.kerala.gov.in> may be regularly visited for any addendum in the tender document/ any news pertaining to the tender.

15. LANGUAGE:

1. All related correspondence and documents should be written in English language. Supporting documents and printed literature furnished by the applicant may be in any other language provided that these are accompanied by appropriate translations of the pertinent passages in the English language. Supporting material, which are not translated into English, may not be considered. For the purpose of interpretation and evaluation of the application, the English language translation shall prevail.

16. Currency:

1. In all cases where the original figure is in foreign currency ‘partial conversion’ option shall be selected in the Currency Conversion column in the financial bid (B.O.Q.).

Section – II: Bidding Data Sheet (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

A. General	
The Purchaser is:	Member Secretary, Kerala State Pollution Control Board , Head Office Plamood, Pattom P.O., Thiruvananthapuram 695004 Kerala, India website:http://www.keralapcb.nic.in
The name of the Project is:	Supply of Real Time Noise Level Measuring Station with display board and Comprehensive Annual Contract which include O & M and Data reporting in two locations each at Ernakulam and Thiruvananthapuram district., Kerala.
B. Contents of Bidding Documents	
For Clarification of bid purpose only, the Purchaser's address is:	
Attention:	Member Secretary
Address:	Kerala State Pollution Control Board, Head Office Pattom P.O., Thiruvananthapuram - 695 004
Telephone:	Tel: 0471 - 2318153, 54, 55, 56, 2312910
Email address:	ms.kspcb@gov.in , see1kspcb@gmail.com
D. For bid submission purposes, the Purchaser's address is:	
Attention:	Member Secretary,
Address:	Kerala State Pollution Control Board, Head Office, Pattom P.O., Thiruvananthapuram - 695 004
City:	Thiruvananthapuram
The deadline for the submission of bids is:	
Date: 03.02.2020	
Time: 03.00 PM	

E. The technical bid opening shall take place at:

Attention:	Member Secretary,
Address:	Kerala State Pollution Control Board, Pattom P.O., Thiruvananthapuram - 695 004
City:	Thiruvananthapuram
Pin Code:	695 004

The deadline for Opening of Technical bids is:

Date: 04.02.2020

Time: 03.00 PM

G. Award of Contract

The award of work is to supply of complete set of noise monitoring terminal and central server network.

Optional: Weather proof digital display board/TV of size 2*3 ft size.

Section-III

Technical Specifications of Remote Standalone Real Time Noise Level Measuring Station (RTNLMS) and its Network

The standalone unmanned remote Real Time Noise Level Measuring Station (RTNLMS) and its Network for Ernakulum and Thiruvananthapuram Districts, Kerala

Remote Station for Noise Level Monitoring/Measurement Network should have a standalone operating terminal, appropriate for outdoor installation for continuous measurement of ambient noise. Microphone shall be connected to an advanced acoustic signal processing unit, with various level of slow, fast, impulse and frequencies integrations. The software shall able to compute min, max and any level of percentiles of data and to transfer the data with an integrated GSM/GPRS radio-modem of latest version. Said radio-modem allows to transfer the data to a Central Receiving Station where dynamic noise data are prepared and stored. The reliable and precise data shall be uploaded on real time basis from the continuous measuring remote acoustic terminals. The Noise Monitoring Terminal or Real Time Noise Level Monitoring Station (NMT or RTNLMS) should have optional Audio data storage facility for listening and storing. NMT consists of a weatherproof cabinet containing a noise level analyzer, battery, communication device for transmitting data to receiving station, and an outdoor microphone, all of which shall be mounted on a mast.

A. Technical Specification for Integrated Noise Level Meter(Type I)

Sl.No	Parameter	Specification
1.	Applicable Standards	<u>Sound Level Meter and basic software:</u> <ul style="list-style-type: none">▪ IEC 61672-1(2012-03) Class1 or with latest approval▪ Valid Certificate from LNE, PTB, METAS, CEM or BEV shall be enclosed
2.	Microphone 1	<ul style="list-style-type: none">▪ Type 1, Pre-polarized 0⁰(vertical) and 90⁰ (horizontal) incidence, free-field, ½ or ¼”▪ Condenser, Sensitivity: min. 50 mv/Pa, freq. Resp.: 20-20000 Hz
3.	Microphone Preamplifier	<ul style="list-style-type: none">▪ Compatible amplifiers with above microphones and extension cable
4.	Time Weightings	<ul style="list-style-type: none">▪ Slow, Fast & Impulse (IEC616721 :2002)▪ Peak detector, Peak hold facility▪

5.	Frequency Weightings	<ul style="list-style-type: none"> ▪ A, C & Z
6.	Measurement Range	<ul style="list-style-type: none"> ▪ 25-140dB, ▪ Max. Peak Value: 150dB
7.	Dynamic Span	<ul style="list-style-type: none"> ▪ 110 dB(A) or more
8.	Noise floor	<ul style="list-style-type: none"> ▪ <18 dB (A)
9.	Temperature	<ul style="list-style-type: none"> ▪ -10 0C to +50 0C
10.	Number of Input Channels	<ul style="list-style-type: none"> ▪ 6 or more or if integrated of single package 2 inputs
11.	Telemetry/communication	<ul style="list-style-type: none"> ▪ The <u>NMT</u> should have provision for interfacing with following type of communications: ▪ GSM/GPRS/ CDMA/Ethernet/PSTN of latest version
12.	Cabling	<ul style="list-style-type: none"> ▪ All cabling will be protected via armored Conduit
13.	Flexible	<ul style="list-style-type: none"> ▪ There should be provision of adopting/ installing standard interfaces
14.	Mast	<ul style="list-style-type: none"> ▪ Length of mast should be 4 meter and to be mounted in a concrete base and be of GI Material and non-corrosive
15.	Security	<ul style="list-style-type: none"> ▪ 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
16.	Weatherproof cabinet	<ul style="list-style-type: none"> ▪ The robust, durable, weatherproof cabinet with IP-67 protection
17.	Power Source at Remote Station	<p>Below all power sources shall be made available:</p> <ul style="list-style-type: none"> ▪ 220 Volt 50 Hz, AC Power supply ▪ Internal Battery having at least 12hrs backup ▪ External Battery with adequate Solar Panel supported at least for 2 days without main supply ▪ Vendor must quote for solar panel separately for each station
18.	Internal Clock Accuracy	<ul style="list-style-type: none"> ▪ 12 seconds/months or better
19.	GPS	<ul style="list-style-type: none"> ▪ The NMT must have integrated GPS system for time synchronisation
20.	Programmability	<ul style="list-style-type: none"> ▪ Fully Programmable. All functions must be programmable from remote access or direct from the instrument vendor or CPCB
21.	Sound Recording	<ul style="list-style-type: none"> ▪ Audio recording should be threshold based in wave format (recording should be done for minimum of two minutes in each activation) – optional

22.	Available measurements	<p style="text-align: center;">Display only</p> <ul style="list-style-type: none"> ▪ L_P (A, C & Z) weighting and S, F or I weighting) <p style="text-align: center;">Display & Stored</p> <ul style="list-style-type: none"> ▪ L_{Pmax}, L_{Pmin}, L_{eq} (A & C) weighting and S, F, P or I weighting) ▪ $L_{1.0}$ to $L_{99.9}$ (five simultaneous user-selected values available) ▪ % overload, Date and time, Start time, stop time, Elapsed time
23.	Noise Profile	<ul style="list-style-type: none"> ▪ 1 second short L_{eq} & 1 minute to 24 hours user defined L_{eq} averages
24.	Measurement Control	<ul style="list-style-type: none"> ▪ The unit shall be able to record and store data over pre-set measurement times of 1 minute to 24 hours. ▪ Auto-synchronize to the Real time clock (calendar)
25.	External Power	<ul style="list-style-type: none"> ▪ Facility for connection to external battery ▪ Mains power supply and Solar power supply
26.	Environmental	<ul style="list-style-type: none"> ▪ Temperature Operating -10^0C to $+50^0C$ ▪ Humidity up to 95 % RH, Non condensing
27.	Wind Screen Filters	<ul style="list-style-type: none"> ▪ Automatic wind screen detection and correction
28.	Calibration confirmation	<p>Specification:</p> <ul style="list-style-type: none"> ▪ Calibrator shall conform to IEC 60942:1988 class 1 ▪ Calibration accuracy ± 0.2 dB ▪ Calibration at dual range 94 dB SPL and 114 dB SPL ▪ 1 kHz calibration frequency ▪ Compatible to Adaptors for 1/2" and 1/4" microphones ▪ Automatic Calibration
29.	Remote calibration facility	<ul style="list-style-type: none"> ▪ The unit shall be able to calibrate remotely with various levels of frequencies and to check logged data of calibration
30.	Software	<ul style="list-style-type: none"> ▪ Capable for data acquisition, transfer, store and to generate report on the desired time interval and compare the data with various parameters. Software should support to generate graphical Representations and help to identify the source of Noise
31	Warrantee Period	Shall be of minimum of 03 years, however, preference will be given for higher warrantee period. In case of any defect during the warrantee and contract period the corresponding item shall be replaced on free of cost.

B. Technical Specification for Day & Night Visible Digital Data Display Board or Weather proof TV as optional items:

Sl.No.	Requirements	Detailed Specifications
1.	Size of Display System (H X W) feet and Pixel or TV	2 X 3 feet , 16 mm (+/- 0.5 mm) pixel pitch, 3500 m ² minimum pixel Density
2.	Visibility Range	200 Meters (day time)
3.	Brightness	8500 NIT or higher
4.	Display of Colour Elements	1Red , 1Green, 1Blue pixel
5.	Minimum Life span of the system	LED Life 100000 Hours
6.	Viewing angle	Viewing angle of 140° Horizontal/77° Vertical
7.	Operating Temperature	-15-55 ⁰ C
8.	No of Color	281 trillion Colors , 256 brightness level dimming capability
9.	Video processing	24 bit Video processing, 100 % Digital
10.	Diode Density	1100m ² / 1000 ft ² (minimum)
11.	Scan rate and refresh frequency	Scan Ratio 1:1 and with minimum 20000 hz refresh frequency
12.	LED internal and External Cabinet type , Serviceability	Internal LED frame should be made of Aluminum and External cabinet.
13.	Color Temperature -	Adjustable 4500 - 9000 K range
14.	Input Power Requirement/ Consumption	120/240v, 50/60Hz , Power consumption 100 W (maximum) / m ²
15.	Type	Discrete Diode
16.	Display Mounting	Structure based upon location. Uni Pole or hanging
17.	General	The system should also have the facility to display the Environmental picture through video camera/VCR/CD player etc. for public awareness.
18.	Power Cable Laying	Length of cable depending on the distance of the location, cabling is to be done by the firm
19.	Device at station to pick up data and transmit it to LED	Display data connectivity device with GSM SIM has to be installed nearby LED board which will pick up data from station computer through Internet.
20.	Certification	CE, UL/ULC listed
21.	IP Rating	Display Module IP67, Cabinet IP 65

22.	Languages supported by the display	English and Malayalam
23.	Warrantee Period	Shall be of minimum of 03 years, however, preference will be given for higher warrantee period. In case of any defect during the warrantee and contract period display board shall be replaced on free of cost.

Note: For completeness of entire scope of Section-II and its each points of subsections, if any other items related to supply, installation, commissioning, generating of reliable data, storage and transfer essentially required, same shall be quoted/supplied even if not mentioned in the tender notice.

Annexure-I

Format to be duly filled by Bidders and Submitted for evaluation in Pre qualification criteria

Sl.No.	Pre-qualification Criteria	To be filled and submitted by the Bidder (page no of the document to be specified)
1	Are you a manufacturer	
2	Complete address(with email) of manufacturing site	
3	Are you an Indian Agent to the Manufactures	
4	Address of the office in India	
5	Enclose copy of Authorization obtained from manufactures	
6	Are you partially importing and fabricating locally	
7	Address from where Imported and address of local fabrication	
8	Years of experience in this field of Supply of Real Time Noise level Monitoring Stations	
9	How many such Real Time Noise level Monitoring Stations supplied, if so list of the name of customers(Attach copy of latest supply order with price bid)	
10	Years of Operation and Maintenance Contract experience	
11	Name of customers and period with whom O&M contracts executed (Attach List with copy of contract)	
12	Enclose at least one satisfactory performance certificate from customers with whom O & M Rendered	
13	Financial turnover for last 3 years (Attach proof)	
14	Enclose Affidavit for not being black listed	
15	Have you attached Tender Fee/EMD as mentioned in the tender, if so details & amount	
16	Have you submitted Technical and price bid separately as per the format provided	
17	Have you submitted duly filled Technical Specifications compliance sheet(Annexure II & III)	

Annexure –II

Format of Compliance for Technical Specifications for Real Time Noise Level Measuring Station to be submitted by bidder (Supporting documents like Brochures , undertakings are to be attached)

Sl.No.	Parameter	Specification	Compliance Statements to be filled by bidder (if yes, detail your spec and page no of the document)
1.	Applicable Standards	Sound Level Meter and basic software: IEC 61672-1(2012-03) Class1 or with latest approval Valid Certificate from LNE, PTB, METAS, CEM or BEV shall be enclosed.	
2.	Microphone 1	Type 1, Pre-polarized 0 ⁰ (vertical) and 90 ⁰ (horizontal) incidence, free-field, ½ or ¼” Condenser, Sensitivity: min. 50 mv/Pa, freq. Resp.: 20-20000 Hz	
3.	Microphone Preamplifier	Compatible amplifiers with above microphones and extension cable	
4.	Time Weightings	Slow, Fast & Impulse (IEC616721 :2002) Peak detector, Peak hold facility	
5.	Frequency Weightings	A, C & Z	
6.	Measurement Range	25-140dB, Max. Peak Value: 150dB	
7.	Dynamic Span	110 dB(A) or more	
8.	Noise floor	<18 dB (A)	
9.	Temperature	-10 0C to +50 0C	

10.	Number of Input Channels	6 or more or if integrated of single package 2 inputs	
11.	Telemetry/communication	The NMT should have provision for interfacing with following type of communications: GSM/GPRS/ CDMA/Ethernet/PSTN of latest version	
12.	Cabling	All cabling will be protected via armored Conduit	
13.	Flexible	There should be provision of adopting/ installing standard interfaces	
14.	Mast	Length of mast should be 4 meter and to be mounted in a concrete base and be of GI Material and non-corrosive	
15.	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	
16.	Weatherproof cabinet	The robust, durable, weatherproof cabinet with IP-67 protection	
17.	Power Source at Remote Station	Below all power sources shall be made available: 220 Volt 50 Hz, AC Power supply Internal Battery having at least 12hrs backup External Battery with adequate Solar Panel supported at least for 2 days without main supply Vendor must quote for solar panel separately for each station	
18.	Internal Clock Accuracy	12 seconds/months or better	

19.	GPS	The NMT must have integrated GPS system for time synchronisation	
20.	Programmability	Fully Programmable. All functions must be programmable from remote access or direct from the instrument vendor or CPCB	
21.	Sound Recording	Audio recording should be threshold based in wav format (recording should be done for minimum of two minutes in each activation) – optional	
22.	Available measurements	<p>Display with auto/adjustable brightness L_p (A, C & Z) weighting and S, F or I weighting)</p> <p>Display & Stored L_{Pmax}, L_{Pmin}, L_{eq} (A & C) weighting and S, F, P or I weighting)</p> <p>$L_{1,0}$ to $L_{99,9}$ (five simultaneous user-selected values available) % overload, Date and time, Start time, stop time, Elapsed time</p>	
23.	Noise Profile	1 second short L_{eq} & 1 minute to 24 hours user defined L_{eq} averages	
24.	Measurement Control	The unit shall be able to record and store data over pre-set measurement times of 1 minute to 24 hours Auto-synchronize to the Real time clock (calendar)	
25.	External Power	Facility for connection to external battery Mains power supply and Solar power supply	
26.	Environmental	Temperature Operating $-10^{\circ}C$ to $+50^{\circ}C$ Humidity up to 95 % RH, Non condensing	
27.	Wind Screen Filters	Automatic wind screen detection and correction	

28.	Calibration confirmation	Specification: Calibrator shall conform to IEC 60942:1988 class 1 Calibration accuracy ± 0.2 dB Calibration at dual range 94 dB SPL and 114 dB SPL 1 kHz calibration frequency Compatible to Adaptors for 1/2" and 1/4" microphones Automatic Calibration	
29.	Remote calibration facility	The unit shall be able to calibrate remotely with various levels of frequencies and to check logged data of calibration	
30.	Software	Capable for data acquisition, transfer, store and to generate report on the desired time interval and compare the data with various parameters. Software should support to generate graphical Representations and help to identify the source of Noise	

Annexure -III

Format of Compliance for Technical Specifications for Digital Display Board or TV(video) to be submitted by bidder (Supporting documents like Brochures , undertakings are to be attached and specify the page no of relevant document)

Sl.No.	Requirements	Detailed Specifications	Compliance statements duly filled by bidder and page no of the document
1.	Size of Display System (H X W) feet and Pixel or TV of same size to display only text video	2X 3 feet , 16 mm (+/- 0.5 mm) pixel pitch, 3500 m ² minimum pixel Density	
2.	Visibility Range	200 Meters (day time)	
3.	Brightness	8500 NIT or higher	
4.	Display of Colour Elements	1Red , 1Green, 1Blue pixel	
5.	Minimum Life span of the system	LED Life 100000 Hours	
6.	Viewing angle	Viewing angle of 140° Horizontal/77° Vertical	
7.	Operating Temperature	-15-55 ⁰ C	
8.	No of Color	281 trillion Colors , 256 brightness level dimming capability	
9.	Video processing	24 bit Video processing, 100 % Digital	
10.	Diode Density	1100m ² / 1000 ft ² (minimum)	
11.	Scan rate and refresh frequency	Scan Ratio 1:1 and with minimum 20000 hz refresh frequency	
12.	LED internal and External Cabinet type , Serviceability	Internal LED frame should be made of Aluminum and External cabinet.	
13.	Color Temperature -	Adjustable 4500 - 9000 K range	
14.	Input Power Requirement/ Consumption	120/240v, 50/60Hz , Power consumption 100 W (maximum) / m ²	
15.	Type	Discrete Diode	
16.	Display Mounting	Structure based upon location. Uni Pole or hanging	

17.	General	The system should also have the facility to display the Environmental picture through video camera/VCR/CD player etc. for public awareness.	
18.	Power Cable Laying	Depending upon location, cabling is to be done by the firm	
19.	Device at station to pick up data and transmit it to LED	Display data connectivity device with GSM SIM has to be installed nearby LED board which will pick up data from station computer through Internet.	
20.	Certification	CE, UL/ULC listed	
21.	IP Rating	Display Module IP67, Cabinet IP 65	
22.	Languages supported by the display	English and Malayalam	
23.	Warrantee Period	Shall be of minimum of 03 years, however, preference will be given for higher warrantee period. In case of any defect during the warrantee and contract period shall be replaced on free of cost.	

Annexure-IV
Section IV: Schedule of Requirements
(Attach documents for item no. 3, 4 &5)

Sl.NO	Name of Items & Its description
1.	Supply of Real Time Noise Level Measuring Station, Data Logging System mountable on mast along with solar powered panel as per the specifications
2.	Supply of digital display board or weather proof TV only to display text video as per the specifications
3.	Solar Power Panel of adequate capacity to the system
4.	Manual for O & M and technical literature both hard and soft copies
5.	Details of man power and their qualification deputed for O & M (As per 13.b-Sl:no.12)

Annexure-V

Section V: Schedule of Price Form

Sl.No.	Name of Items & Its Description	compliance
1.	Cost for supply of real time noise measuring station and data logger	
2.	Cost for supply of 4m pole/mast suitable to fix noise monitoring and solar power panel systems with adequate civil foundation	
3.	Cost for Supply of digital display board or weather proof TV which can display only text video as per the specifications	
4.	Cost for installation and commissioning of real time noise level measuring station with digital display board on Civil structure (2sqm)	
5.	Solar Power Panel of adequate capacity to the system along with Battery	
6.	Cost for CAMC during warranty period of first year (Including manpower)	
7.	Cost for CAMC during warranty period of second year (Including manpower)	
8.	Cost for CAMC during warranty period of third year (Including manpower)	
9.	Cost for CAMC during post warranty period for first year (Including manpower)	
10.	Cost for CAMC during post warranty period for second year (Including manpower)	

Annexure-VI
SECTION VI
BIDDING FORMS

Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid Submission]*
No.: *[insert number of bidding process]*

1. Bidder's Legal Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each party: <i>[insert legal name of each party in JV]</i>
3. Bidder's actual or intended Country of Registration: <i>[insert actual or intended Country of Registration]</i>
4. Bidder's Year of Registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Legal Address in Country of Registration: <i>[insert Bidder's legal address in country of registration]</i>
6. Bidder's Authorized Representative Information Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
1. attached are copies of original documents of: <i>[check the box(es) of the attached original documents]</i> Articles of Incorporation or Registration of firm named in 1, above, In case of JV, letter of intent to form JV or JV agreement, In case of government owned entity from the Purchaser's country, documents establishing legal and financial autonomy and compliance with commercial law,

Annexure-VII

Bid Submission Form

[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid Submission]*

No.: *[insert number of bidding process]*

Invitation for Bid No.: *[insert No of IFB]*

To: *[insert complete name of Purchaser]*

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda No.: _____ *[insert the number and issuing date of each Addenda];*
- (b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services ___ *[insert a brief description of the Goods and Related Services];*
- (c) The total price of our Bid, excluding any discounts offered in item(d)below, is: _____ *[insert the total bid price in words and figures, indicating the various amounts and the respective currencies];*
- (d) The discounts offered for their application are:
Discounts. If our bid is accepted, the following discounts shall apply. _____ *[Specify in detail each discount offered and the specific item of the Schedule of Requirements to which it applies.]*
- (e) Our bid shall be valid for the period of time specified, from the date fixed for the bid submission deadline, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our bid is accepted, we commit to obtain a performance and for the due performance of the Contract;
- (g) We, including any subcontractors or suppliers for any part of the contract, have nationality from eligible countries _____ *[insert the nationality of the Bidder, including that of all parties that comprise the Bidder, if the Bidder is a JV, and the nationality each subcontractor and supplier]*
- (h) We have no conflict of interest;
Our firm its affiliates or subsidiaries—including any subcontract or suppliers for any part of the contract—has not been declared ineligible by the Bank, under the Purchaser’s country laws or official regulations,
- (i) The following commissions, gratuities, or fees have been paid or are to be paid

with respect to the bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

(If none has been paid or is to be paid, indicate “none.”)

- (j) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.

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

Signed: _____ *[insert signature of person whose name and capacity are shown]*

In the capacity of _____ *[insert legal capacity of person signing the Bid Submission Form]*

Name: _____ *[insert complete name of person signing the Bid Submission Form]*

Duly authorized to sign the bid for and on behalf of: _____ *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Bid Security

[The Bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]

[Bank's Name, and Address of Issuing Branch or Office]

Beneficiary: _____ *[Name and Address of Purchaser]*

Date: _____

BID GUARANTEE No.: _____

We have been informed that *[name of the Bidder]* (herein after called “the Bidder”) has submitted to you its bid dated (hereinafter called “the Bid”) for the execution of *[name of contract]* under Invitation for Bids No. *[IFB number]* (“the IFB”).

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

At the request of the Bidder, we *[name of Bank]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[amount in figures]* (*[amount in words]*) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligations under the bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Form of Bid; or

- (b) having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity, (i) fails or refuses to execute the Contract Form; or (ii) fails or refuses to furnish the performance security, if required, in accordance with the Instructions to Bidders.

This guarantee will expire: (a) if the Bidder is the successful bidder, upon our receipt of copies of the contract signed by the Bidder and the performance security issued to you upon the instruction of the Bidder; or (b) if the Bidder is not the successful bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the successful bidder; or

- (ii) twenty-eight days after the expiration of the Bidder's Bid.

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.

[signature(s)]