

TENDER DOCUMENT

FOR

**Procurement of Laboratory Equipment,
Identification of Service Provider
For Supply, Commissioning & Maintenance of
the Central Server Software for Online Real
Time Data Acquisition and Handling System
for Emission, Ambient Air and Effluent Quality
Monitoring in Madhya Pradesh – Linking of
Industries with MPPCB Server and
Replacement of Existing Network System with
New System including Operation, Connectivity
& Testing at MPPCB, Bhopal**



Year: 2016 - 17

**M. P. Pollution Control Board
E-5 Sector, Paryawaran Parisar,
Arera Colony, Bhopal – 462016**

**PBX : +91(0755) 2466191
FAX : +91(0755) 2463742
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M. P. POLLUTION CONTROL BOARD

PARYAWARAN PARISAR, E-5, ARERA COLONY, BHOPAL – 16

Phone: [0755] 2466191 Fax: [0755] 2463742 E-mail: it_mppcb@rediffmail.com

Sealed tenders are invited from the reputed Service Providers, Manufacturers [approved by BIS/ISO for quality & precision] and / or their authorized dealer / agent /representatives, specially authorized for this tender, for the supply of laboratory instruments and other services as per following details:

Sl. No.	Particulars of Items/Services	Qty.	Earnest Money [Rs.]	Due date & Time for opening of bids
Tender No. MPPCB/Pur./02/2016-17:				
1.	CCTV System	01 set	12000.00	23.02.2017; 3.00 pm
	Fire Alarm System	01	3000.00	
	PM _{2.5} Sampler	40	120000.00	
	Portable Generating Set	30	42000.00	
	Respirable Dust (PM ₁₀) Sampler	44	52800.00	
	Surveillance Equipments	01 set	16000.00	
	Water Current (Flow) Meter	14	21000.00	
Tender No. MPPCB/Pur.-ESC/03/2016-17:				
3.	Identification of Service Provider For Supply, Commissioning & Maintenance of the Central Server Software for Online Real Time Data Acquisition and Handling System for Emission, Ambient Air and Effluent Quality Monitoring in Madhya Pradesh – Linking of Industries with MPPCB Server	One job	20000.00	23.02.2017; 3.00 pm
Tender No. MPPCB/Pur.-IT/04/2016-17:				
4.	Replacement of Existing Network System with New System including Operation, Connectivity & Testing at MPPCB, Bhopal	One job	14000.00	23.02.2017; 3.00 pm

The tender document including technical specifications of services / work shall be downloaded from the website on or before up to 1.00 PM on dated 23.02.2017 on payment of Rs. 1500.00 [Rupees One Thousand Five Hundred only] by demand draft in favor of Member Secretary, M. P. Pollution Control Board, Bhopal towards downloading the tender document from Website. The Tender documents will not be available in physical form and any amendment required after the publication of this notice will be available on only Board's website. The earnest

money of requisite amount shall be submitted in a separate sealed envelope mentioning the details thereof. No tender shall be considered without requisite tender fee and earnest money. The bidder shall submit sealed tenders on or before at 1.00 p.m on dated 23.02.2017 and shall be opened on the same date at 3.00 p.m. in the presence of bidders, who wish to participate. 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 on Board's Web site www.mppcb.nic.in and www.govtenders.nic.in.

[Dr. Reeta Kori]
Chief Scientific Officer



M. P. POLLUTION CONTROL BOARD

PARYAWARAN PARISAR, E-5, ARERA COLONY, BHOPAL – 16

Phone : [0755] 2466191, Fax : [0755] 2463742 E-mail : it_mppcb@rediffmail.com,
pur_mppcb15@rediffmail.com

To,

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Sub.: Sealed tenders for (1) purchase of Laboratory Equipments, (2) Identification of Service Provider For Supply, Commissioning & Maintenance of the Central Server Software for Online Real Time Data Acquisition and Handling System for Emission, Ambient Air and Effluent Quality Monitoring in Madhya Pradesh – Linking of Industries with MPPCB Server, (3) Replacement of Existing Network System with New System including Operation, Connectivity & Testing at MPPCB, Bhopal.

Dear Sir,

M. P. Pollution Control Board desires to procure laboratory equipments, Identification of Service Provider For Supply, Commissioning & Maintenance of the Central Server Software for Online Real Time Data Acquisition and Handling System for Emission, Ambient Air and Effluent Quality Monitoring in Madhya Pradesh – Linking of Industries with MPPCB Server and Replacement of Existing Network System with New System including Operation, Connectivity & Testing at MPPCB, Bhopal for its and Head Quarter and laboratories spread over whole of the state. Sealed tenders are invited from the reputed manufacturers [approved by BIS/ISO] or their authorized representatives, specially authorized for this tender, who are capable of supplying laboratory equipment and aforesaid services which are shown in the tender notice. The terms and conditions are as follows:

Tender No. MPPCB/Pur./02/2016-17

TENDER DOCUMENT

FOR

Procurement of Laboratory Equipment & Other Articles



Year: 2016 – 17

**M. P. Pollution Control Board
E-5 Sector, Paryawaran Parisar,
Arera Colony, Bhopal – 462016**

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M. P. POLLUTION CONTROL BOARD

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Phone : [0755] 2466191, Fax : [0755] 2463742 E-mail : it_mppcb@rediffmail.com,
pur_mppcb15@rediffmail.com

Tender No. MPPCB/Pur./02/2016-17 (Laboratory Equipments & Other Items)

[A] SPECIAL CONDITIONS:

1. All prices quoted should be CIF New Delhi for imported equipment. Other charges like transportation, insurance, F.O.R. destination and installation charges should be quoted separately. For indigenous equipment prices should be F.O.R. destination.
2. Prices should be quoted for complete set of equipment including the cost of installation, minor civil works, electrical fittings and cabling etc.
3. Accessories required [if any] for maintenance for a period of three years should be given separately.
4. Annual Maintenance charges for three years should be quoted separately in Annexure – 2.
5. The technical specifications of the offered equipment should be furnished in annexure –1. Schedule of requirement is annexed as annexure-6. The check list is shown as per annexure enclosed.
6. The equipment offered should necessarily contain a guarantee for its trouble free performance for a period of three year from the date of installation.
7. 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.
8. The bidder should furnish details of supplies made by him to important institutions, along with performance certificate, during last one year [Users' list]. The bidder must submit Client list along with the previous purchase order copies of similar item [s] supplied to any Central /State Pollution Control Boards / any CSIR Laboratory.

9. 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.
10. Earnest money be furnished by a demand draft in favor of Member Secretary, M. P. Pollution Control Board, Bhopal in envelop "A". Offers without earnest money shall not be considered and the relevant envelops [B & C] will not be opened and their offer shall be treated as rejected.
11. Bidders using downloaded tender forms must submit tender fee by demand draft along with Earnest Money in Envelop "A" drawn of Member Secretary, M. P. Pollution Control Board, Bhopal. The tender will not be accepted from the firm to whom the document is not issued by the Board and the bid downloaded from net without tender fee will not be accepted.
12. The bidder shall have to submit the copy of sales tax registration and Income Tax registration [PAN] along with envelop "B" otherwise the offer shall be liable for rejection.
13. An undertaking shall be submitted by the tenderer that they are not black listed in any Govt. organization / institutions along with envelop "B".
14. 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.
15. 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.

16. **PROCEDURE FOR SUBMISSION OF TENDERS :**

Each bidders shall submit his offer in three sealed envelopes A, B and C. Envelop "A" shall contain earnest money and tender cost, if the tender document is downloaded from the web site. The Envelop "B" should contain technical specification, terms & conditions, company profile, copy of sales tax registration number, PAN number and authorization certificate

from manufacturer for submission of offer for this tender, if offer is submitted by authorized representative. In case the manufacturer of any equipment authorizes more than one firm for submitting offer, then such offers shall be treated as rejected. Envelop "C" shall contain financial offer.

[a] Envelop – "A" : Envelop "A" should contain demand draft for the requisite amount of earnest money in favor of Member Secretary, M. P. Pollution Control Board, Bhopal. If the tender document is downloaded from web site, then separate demand draft for tender cost shall be submitted with envelop" A". The name of instrument and the amount of the demand draft should be inscribed on the top of envelop. Envelop "A" shall be opened on 23.02.2017 at 3.00 pm in the presence of the bidders or their authorized representatives. Insufficient amount furnished as earnest money and tender cost shall make the offer liable for rejection.

[b] Envelop – "B": Bidders, who have furnished the desired amount of earnest money and tender cost shall be liable for opening of the Envelop "B" of their offer. The Envelop "B" should contain detailed technical specifications in annexure -1, make & model of the equipment, functioning procedure of the equipment and other literature relevant to the equipment and company profile. If the offer is submitted by authorized representative, he should submit authorization letter in envelop "B" from the manufacturer for submitting offer for this tender, otherwise tender offer of the firm shall not be considered and liable for rejection. The tenderer should furnish users' list and details of supplies made by him to important institutions along with performance certificate. The bidder shall have to submit the copy of sales tax registration and income tax no. [PAN] along with the envelop "B", otherwise the offer shall be liable for rejection. An undertaking shall be submitted by the tenderer, regarding whether they are not black listed in any Govt. organization / institutions, along with envelop "B". The details of service station in Madhya Pradesh and India should be furnished with other details.

[c] Envelop – "C" : The envelop "C" shall contain financial offer in annexure 3, 4 or 5 [whichever is applicable] of the tender document. 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 suitability of equipment with respect to application, performance, after sale service and service centers in Madhya Pradesh or in India etc., the financial offer shall be opened. The bidder shall submit necessary information such as Bank Name, Account Name, Account Number, Account Type, Branch IFSC Code for the safer & easier payment transaction through RTGS /NEFT.

The bidder shall submit copies of at least two recent supply orders of the similar nature indicating detailed price schedule along with "Envelop "C" (price bid) in order to examine reasonability of the quoted rates in the present bid. Notwithstanding anything stated above the competent authority of the Board reserves the right to assess the capability and capacity of the bidder to perform the contract, should the circumstances warrant such an assessment in the overall interest of the Board.

[B] OTHER CONDITIONS:

1. The Board reserves its rights to reject any or all the tenders without assigning any reason there for.
2. Tender found incomplete shall be rejected forthwith.
3. 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 of the material, 2% per month penalty shall be charged up to one month, there after supply order shall be treated as cancelled and earnest money shall be forfeited and the supply order shall be issued to the second lowest firm. 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.
4. The time limit for the supply of imported equipment shall be 90 days, which can be relaxed for additional 30 days by the Member Secretary. After scheduled time limit, 2% per month penalty or maximum penalty up to 10% of the total ordered value should be levied.
5. If the bidder is not a manufacturer himself, should have a facility for repairing and maintenance of the instrument. The details of service centers in Madhya Pradesh and India should be furnished along with other details.
6. It shall be the responsibility of the bidder to deliver the material to the consignee in sound condition without any damage. Any damage or loss during transit shall be on the account of the bidder.
7. The tenders shall be valid for a period of 360 days from the date of opening of envelop "A".

8. The prices should include all taxes like sales tax, excise tax or any other tax.
9. The approved firm / manufacturer shall have to submit 5% security deposit of the ordered value in the form of Bank Guarantee for a period of 12 months, other wise 5% amount shall be deducted from the bill.
10. In case the approved bidder fails to effect supply, within the specified period as per supply order, the earnest money is liable to be forfeited.
11. 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 bidders at their own cost. The consignee will not be responsible for the custody and safety of such items.
12. 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.
13. All the clearance including the obtaining NMI [Not manufactured in India] certificate, custom clearance and custom duty will be the responsibility of the tenderer. This office will open the letter of credit [L/C] as may be required and will only sign the documents wherever required.
14. 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.
15. The bidder is expected to examine all instructions, forms, terms and conditions and specifications mentioned in the bid document. Failure to furnish all information required by the bid documents of submission of a bid not substantially irresponsive to the bid document in every respect will be at the bidder's risk and may result in the rejection of its bid.
16. The terms of payment shall be as under:

[A] **Indigenous Items:** 75% of the cost of material would be paid after receipt of the material by consignee and balance 25% payment shall be released only after satisfactory installation and demonstration of the equipments / material at site.

[B]**Imported equipments:** The letter of credit will be opened for total ordered value, but 75% of the cost will be released on shipment of the material and balance 25% payment shall be released only after satisfactory installation & demonstration of the equipments / receipt of material at site.

17. Conditional offers will not be accepted and liable for rejection.

18. In case of human error regarding labeling of envelop, the committee constituted for the opening of envelop shall take appropriate decision.

19. In case of any dispute the decision of Chairman, M. P. Pollution Control Board shall be final & binding.

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

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.
- (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 produces 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 items. 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 in the presence of any tenderer who may be present at the time 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.

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 one percent 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 after estimated cost of the that the supply remains un commenced or unfinished 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 one 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 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 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.

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.

**TECHNICAL
SPECIFICATIONS**
(Tender No. MPPCB/Pur./02/2016-17)
(Laboratory Equipments & Other Items)

CCTV System

S.No.	Description & Specifications of Items		Details
1.	CCTV Camera	<p>For outdoor surveillance at adjoining area, IP Weatherproof outdoor camera 4.0 Mega Pixel, CMOS Image sensor, H.264 & MJPEG dual stream Encoding, 25 fps, Day Night IR range 30 mtrs, of Dahua, CP Plus, HikVision, Panasonic or equivalent Brands.</p> <p>For surveillance at Biometric Station, IP dome Camera 2.0 Mega Pixel, CMOS Image Sensor, H.264 & MJPEG dual stream Encoding, 25 fps</p>	The locations of the installed cameras will be on top of the building for surrounding surveillance throughout day and night. Dome Camera will be installed for surveillance of Biometric station only.
2.	NVR 32 ch. With 720 p real time live view, H.264 & MJPEG dual stream Encoding. HDMI and VGA Video output simultaneous. Support SATA HDDs upto 4 TB of Dahua, CP Plus, HikVision, Panasonic or equivalent Brands.		For the conversion and transmission of Video footage on LED screen and storage unit.
3.	HDD 4 TB Sata HDD 2.0 and 3.0 USB support of Seagate, Sony, WD, Samsung or equivalent Brands.		For data storage of at least two months.
4.	Switch 10/100/1000 mbps, Video Line Amplifier & CAT- 6 Networking Cable, including Fitting, installation & Connection of D-Link, Cisco, Digisol, ProLink, Micronet or equivalent Brands.		For connection of IP Camera, NVR and Display unit.
5.	LED Monitor 55" for CCTV Display of Samsung, HikVision, Sony or equivalent Brands.		For display of live footage
6.	UPS 1 KVA, 600 Watts, Power Backup for 3 hours of Power Plus, Microtek, Intex or equivalent Brands. for NVR, LED and CCTV Cameras		For Power Backup of CCTV System.
7.	2" dia, 2 mtr high GI Poles.		For mounting of outdoor weatherproof cameras.
8.	Note: Any Other Brands of Specification can be accepted but Contractor should obtain approval from Engineer In-charge of the Board before placing order for any other specific material / Brands.		

FIRE ALARM SYSTEM

Fire Alarm System	Approx. Qty.
Supply, Installation, Testing and Commissioning of Microprocessor based intelligent and electronically addressable, modular, with networking card & printer port- loops Panel (expandable) with each loop capacity of 250 detectors. Fire alarm control panel with coloured touch screen LCD display, multiple access levels, 10,000 event history logs in the non volatile memory (EEPROM). The panel should be modular microprocessor based in nature With provision for CPU & loop redundancy. The panel shall have 240V AC power supply, Automatic battery charger, 24V , ceiled lead acid maintenance free batteries sufficient for 24 hours normal working and then be capable of operating the system for 30 minutes during emergency condition. The panel shall be EN54 / Vds / OEM certification.	01
Supply, Installation, Testing and Commissioning of addressable– Automatic Dual LED smoke detector with two integrated light-scattering smoke sensors using LEDs with different colors/wavelengths (blue/infrared) to avoid False alarm & should comply to Test Fire 1, including mounting base with LED etc. complete as required, Each Detector should have 2 Isolators (one for incoming and one for outgoing line) integrated in detector for maintaining operational availability of all elements in the loop, even in the event of a short circuit & Drift Compensation feature & Automatic addressing. High resistance to electromagnetic effects in accordance with EFSG agreement EFSG/F/97/005 Shall be EN54/ VDs/OEM certificate	22
Supply, Installation, Testing and Commissioning of addressable manual break glass unit (Double action) with inbuilt isolators, with flexible network structures & necessary fixing arrangements with key complete for outdoor application as required. Shall be EN 54 / Vds Certification.	03
Supply, Installation, Testing and Commissioning of Stand alone Loop Powered Addressable sounder with inbuilt isolators & with 32 different tone variants selection options & adjustable sound pressure by 5 levels, the sound pressure 100.0 dB , it should be programmed from the panel. Shall be EN54 / Vds Certification. For outdoor application	03
Providing and Laying of 2 Core 1.5 sq mm Armored Cable	500 mtrs.
OEM authorization certification needs to be submitted by the Bidder.	

Item Sl. No. 3**PM_{2.5} Sampler**

The instrument should be tested with any accredited laboratories like CPCB, NEERI, IIT etc. The instrument should possess following specification:

Flow Rate	Fixed, 1M ³ /hour (16.7 lpm) controlled by Mass Flow Calibrator.
Elapsed time indicator	Up to 9999 hours with two decimals
Vacuum Pump	Diaphragm type, Brush Less motor
Flow Recorder	Chart Type / Memory based downloadable to computer and or manually displayed on screen.
Dry Gas Meter (Volume totalizer)	For measuring total volume of air sampled.
Volumetric Flow rate compensation	Ambient temperature and pressure sensors to control volumetric flow rate.
Power Requirement	220 to 300 Volts ± 10 volts AC, 50 Hz ± 3%
Size Selective inlets	Opposed jet impaction for PM ₁₀ cut and Cyclonic / WINS impactor for PM _{2.5} cut off.
Special Features	The system should have an option to be used for PM ₁₀ sampling.
Calibration Unit	Calibration unit to calibrate the flow rate of the instrument.
Additional supply	Manufacturers standard operation kit including all required items, fittings for start up / regular operation of instrument. Operation and Maintenance Manual for each unit. Spares and consumables for three year operation.
Optional Accessories	Pure Nylon membrane (1µm, 47 mm) developed specially for acidic dry deposition measurements. PTFE membrane filter with PMP (poly methyl pentene) support ring (1µm, 47 mm). Pure Quartz filter (Max. operating temp > 1000°C) 47 mm

Portable Generating Set

Specification:

Portable AC Generating Set 230 Volts, 50 Hz Petrol Start, Petrol run comprising of air cooled 4 stroke single cylinder engine and alternator. The Generating Set should have low lubricating oil alert system. In case of electric Gen Sets shall have maintenance free battery and battery charger with suitable starter. The system should have following features:

Size and Dimension:

The system should have high speed pole alternator and should have dimension of approximate 655 x 445 x 555 mm (l x w x h). It should be portable and maximum ease of handling and transport.

Technical Features:

It should have a fuel tank capacity of 13 liters (approx) and uses petrol as fuel. It has frequency of 50 Hz, and AC output voltage of 220 V. The generator should have a Rated AC output of 2.8 to 3.00 KVA and should operate continuously for about 20 hours with Eco – throttle or 7.1 hours without it. The Generating Set shall be fitted with fuel tank of a capacity to give continuous operation for minimum 8 hours at rated full Load and fuel should not spill out of the lid of the tank due to the vibration. The generator provides steady power and has a 4 stroke, single cylinder engine. It should come with electric or recoil starting system and Transistorized magneto for ignition. The generator should fuel efficient, eco friendly and least noise producing generator.

Item Sl. No. 5**Respirable Dust (PM₁₀) Sampler**

Specifications	Requirements
Blower	0.8 to 1.4 meter cube per minute free flow with flow controller and brushless motor operated at 230 Volts preferable noiseless.
Particle Size	Particles of 10 microns and below collected on filter paper, Filter holder designed to accept any standard filter sheet of 203 mm x 254 mm. Separate provision for collecting particles bigger than 10 microns under the cyclone.
Sampling Time	0 to 24 hours flexible to set any time interval.
Time Totalizer	0 to 9999.99 hours. Time totalizer circuit detects blower stoppage due to any reason including brush failure.
Automatic Sampling	24 hours programmable timer to automatically shut off the system after pre – set time intervals.
Power	Normal 230 ± 10 V, single phase, 50 Hz AC, Built in requirement voltage stabilizer with automatic shut off beyond 220 – 300 V range.
Handling	Portable and as sleek as possible
Housing	Sturdy aluminum cabinet consists of blower, filter case assembly, time totalizer, real time timer, flow meter, flow controller & flow measurement device. RSPM should be collected on filter paper and coarse dust should be collected in a cup under cyclone.
Flow Measurement	Glass Manometer tube accurately graduated directly in M ³ / Min and calibrated across orifice.

Gaseous Sampling Attachment:

Flow Rate	0.3 to 3 lpm, 2% accuracy
Flow Control	Four Inlet and one outlet manifold with built in needle valve for flow control of each inlet.
Sampling Train	4 nos. of 35 ml. Borosilicate glass impingers kept in a ice tray. Dimension as per IS: 5182 Part V

Item Sl. No. 6

SURVEILLANCE SYSTEM

IP Camera	Specifications	Approx. Qty.
Dome Camera	Full HD 1080P IP Indoor infrared dome Camera, 1/2.7-inch CMOS, Sensor Pixels (1920 x 1080), IR LED high efficiency array, for night viewing minimum 15 mtrs, Varifocal 3 to 10 mm auto zoom lens, DC Iris Lens, Audio Input / Output, True day/night switching, WDR ,tamper/motion detection, ONVIF, UL Certified, power supply complete as per required specification.	5
Fish eye camera	5 Megapixel Panaromic 360 degree view IP camera Audio Input / Output, IP66 Housing, True day/night switching, WDR Impact Protection IK10, ONVIF, UL Certified with power support.	1
Box Camera	Full HD 1080P IP Outdoor infrared Box Camera, 1/2.7-inch CMOS, Sensor Pixels (1920 x 1080), IR LED high efficiency array, for night viewing minimum 30 mtrs, Varifocal 3 to 12 mm auto zoom lens, DC Iris Lens, Audio Input / Output, IP66 (NEMA Type 4X) Housing, True day/night switching, WDR Impact Protection IK08, tamper/motion detection, ONVIF, UL Certified complete with wall/pole mounting arrangement and power supply.	1
Network Video recorder (NVR)	Stand alone Network Video Recorder of server client base video manager system including hardware and software for 32 cameras, inclusive of 8TB Storage, Intel i3-2120 processor 1333 MHz, 4 GB memory installed, 1 x USB DVI port, onboard graphics VGA port UL Certified, including 5 Client PC License, 1 Keyboard License, 5 Forensic Search client License.	1
N.B. : Entire surveillance system should be of same reputed OEM. The supplier should be either OEM or authorized by the OEM firm having service centre / branch in Madhya Pradesh, preferably in Bhopal.		

Water Current (Flow) Meter

Specifications	Requirements
Velocity Meter (Water)	Portable and Handy Ultrasonic Digital water velocity meter / flow meter for measurement of velocity / flow of water & waste water in rivers, canals, drains, waste channels etc.
Measurement	Volume flow i.e. M ³ /Hr, M ³ /day, Mass Flow, Flow Speed, Flow direction
Measuring Principle	Ultrasonic time difference correlation principle
Signal converter	Ultrasonic Portable signal converter
Display	In-built digital display 3.5 digit
Flow Velocity	0.5 meter / second to 20 meter / second or better
Repeatability	Less than $\pm 0.25\%$ reading
Measurable Fluids	Water and waste water (< 10.0 % solids in volume)
Power Supply	Rechargeable battery more than 15 hours operation with battery charger adapter for 230 \pm 10 volts, 50 Hz AC
Operating temperature	Ambient to 100°C
Operation Manual	Hard Copy – two sets and CD format – one
Installation & training	Onsite by trained personnel
Warranty	Three years comprehensive warranty with free maintenance.

Annexure – 1

**Tender No. MPPCB/Pur./02/2016-17
(Laboratory Equipments & Other Items)**

TENDER SPECIFICATIONS VS OFFERED SPECIFICATIONS

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

Signature of Bidder -----
Name -----
Business Address -----

Place: -----
Date : -----

Annexure – 2
Tender No. MPPCB/Pur./02/2016-17
(Laboratory Equipments & Other Items)

PRICE SCHEDULE FOR ANNUAL MAINTENANCE AND REPAIR
CHARGES AFTER WARRANTY PERIOD

Sl. No.	Item Description	Qty.	Annual Maintenance & Repair charges for each unit including supply of spares [Price to be quoted either in Indian Rupees or in Foreign currency] Excluding guarantee period	Maintenance and Repair charges for 3 years, including supply of spares.

Note: In case of any discrepancy between unit price and total price, the unit price shall prevail.

Signature of the Bidder -----
Name -----
Business Address -----

Place -----
Date -----

Annexure – 3
Tender No. MPPCB/Pur./02/2016-17
(Laboratory Equipments & Other Items)

PRICE SCHEDULE FOR GOODS IMPORTED

1	2	3	4	5	6	7
Sl. No.	Description	Country of origin	Quantity	Unit Price CIF New Delhi	Total CIF price per item	Unit price pf Inland delivery to final destination and unit price of other incidental services.

Note: In case of discrepancy between unit and total price, the unit price shall prevail.

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

Place:
Date:

Annexure – 4
Tender No. MPPCB/Pur./02/2016-17
(Laboratory Equipments & Other Items)

PRICE SCHEDULE FOR GOODS INDIGENOUS

Sl. No.	Name of equipment with make & model	Unit Price in Rupees	VAT/CST or any other Tax/duty	Unit price including all taxes up to final destination

Note: In case of discrepancy between unit and total price, the unit price shall prevail.

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

Place:
Date:

Annexure – 5
Tender No. MPPCB/Pur./02/2016-17
(Price Bid for CCTV Camera)

S.No.	Description & Specifications of Items		Quantity (Tentative)	Unit Rate (Rs.)	Total Amount (Rs.)
1.	CCTV Camera	IP Weatherproof outdoor camera 4.0 Mega Pixel, CMOS Image sensor, H.264 & MJPEG dual stream Encoding, 25 fps, Day Night IR range 30 mtrs,	18 nos.		
		IP dome Camera 2.0 Mega Pixel, CMOS Image Sensor, H.264 & MJPEG dual stream Encoding, 25 fps	01 No.		
2.	NVR 32 ch. With 720 p real time live view, H.264 & MJPEG dual stream Encoding. HDMI and VGA Video output simultaneous. Support SATA HDDs upto 4 TB		01 No.		
3.	HDD 4 TB Sata HDD 2.0 and 3.0 USB support		04 Nos.		
4.	Switch	8 ch. Port switch	02 Nos.		
		4 ch. Port switch	01No.		
5.	LED Monitor 55" for CCTV Display		01 No.		
6.	UPS for NVR, LED and CCTV Cameras		01 No.		
7.	CAT-6 networking cable for IP Cameras		2000 Mtrs		
8.	PVC Pipe Fitting		2000 Mtrs		
9.	Video Line Amplifier		20 nos.		
10.	2" dia, 2 mtr high GI Poles.		18 Nos.		
11.	Installation Charges		%		

Note: In case of discrepancy between unit and total price, the unit price shall prevail.

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

Place:

Date:

Annexure-6
Schedule of Requirements
(Tender No. MPPCB/Pur./02/2016-17)
Laboratory Equipments & Other Articles)

Name & Address of Regional Office / Laboratory	Description of Laboratory Equipments & Other Articles						
	Fire Alarm System	PM2.5 Samplers	Portable Generating System	Respirable (PM10) Samplers	Surveillance Equipment	Water Current (Flow) Meter	CCTV System
Central Lab., Bhopal	--	05	02	05	--	01	--
R.O. Bhopal	--	05	02	04	--	01	--
Indore	--	02	02	04	--	01	--
Ujjain	--	04	04	02	--	01	--
Gwalior	--	02	02	04	--	01	--
Vijaypur, Guna	--	02	02	02	--	01	--
Jabalpur	--	02	02	04	--	01	--
Rewa	--	02	02	02	--	01	--
Satna	--	02	02	02	--	01	--
Shahadol	--	02	02	02	--	01	--
Singrauli	--	04	02	04	--	01	--
Sagar	--	02	02	05	--	01	--
Dewas	--	04	02	02	--	01	--
Chhindwara	--	02	02	02	--	01	--
Environments Surveillance Centre	01	--	--	--	01	--	--
IT Cell	--	--	--	--	--	--	01 Set
Total Quantity	01	40	30	44	01	14	

Tender No. MPPCB/Pur.-ESC/03/2016-17

TENDER DOCUMENT

FOR

**Identification of Service Provider
For Supply, Commissioning & Maintenance
of the Central Server Software for Online
Real Time Data Acquisition and Handling
System for Emission, Ambient Air and
Effluent Quality Monitoring in Madhya
Pradesh – Linking of Industries with
MPPCB Server**



Year: 2016 - 17

**M. P. Pollution Control Board
E-5 Sector, Paryawaran Parisar,
Arera Colony, Bhopal – 462016**

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M. P. POLLUTION CONTROL BOARD

PARYAWARAN PARISAR, E-5, ARERA COLONY, BHOPAL – 16
Phone: [0755] 2466191 Fax: [0755] 2463742 E-mail: it_mppcb@rediffmail.com

(TENDER NOTICE NO. MPPCB/PUR-ESC/03/2016-17)

(Identification of Service Provider for Supply, Commissioning & Maintenance of the Central Server Software for Online Continuous Real-Time Data Acquisition and Handling System for Emission, Ambient Air and Effluent Quality Monitoring in Madhya Pradesh – Linking of Industries with MPPCB Server”

1. Invitation for Competitive Bidding

1.1 RFP Notice

Madhya Pradesh Pollution Control Board (MPPCB) seeks proposals from experienced agencies for “**Identification of Service Provider for Supply, Commissioning & Maintenance of the Central Server Software for Online Continuous Real-Time Data Acquisition and Handling System for Emission, Ambient Air and Effluent Quality Monitoring in Madhya Pradesh – Linking of Industries with MPPCB Server”**”.

1.2 Important Information

Bid Closing Date and Time	23.02.2017, 1.00 P.M.
Bid Opening Date and Time	23.02.2017, 3.00 P.M.
Bid Document Price and Mode of payment	Through Demand Draft for an amount of Rs. 1500.00 from Nationalized bank in favour of Member Secretary, M.P. Pollution Control Board, Bhopal
Amount of EMD and Mode of payment	Rs. 20,000.00 (Rs. Twenty Thousand only) in the form of DD from Nationalized bank in favour of Member Secretary, M.P. Pollution Control Board, Bhopal
Performance security	10% of the Project cost
Performance security validity period	One year from the date of submission or successful completion of the project, whichever is later.
Bid validity period	360 days from the date of opening of bid
Project period	Three years
Period of signing contract	Within 02 weeks from the date of dispatch of letter of notification of award.
Conditional Bids	Not acceptable and also liable for forfeiture of the EMD.

Entitlement for Bid submission	Only the software development firm who is the actual license holder of the software shall quote. No Joint Venture or Consortium of any kind is allowed. Authorized Agents / Dealers are not allowed to bid.
Currency for Price quote	Indian Rupee
Language of Bid	English
Address for correspondence in respect of technical clarifications	Chief Scientific Officer Environmental Surveillance Centre M.P. Pollution Control Board, E-5 Sector, Arera Colony, Bhopal -16
Contact Person	Dr. Reeta Kori, Chief Scientific Officer
Email	ercmppcb@nic.in
Address for Bid submission	Member Secretary M.P. Pollution Control Board E-5, Arera Colony, Paryavaran Parisar, Bhopal (M.P.)- 462 016 , India

Please furnish your bid for supply of Central Server Software for Data Acquisition and Handling system as per the technical and financial bid specifications mentioned in the RFP on or before the Bid Closing Date and Time mentioned in the time schedule under important information. The bids should be addressed to the Member Secretary, M.P. Pollution Control Board. The Central Server Software shall be an open Application Program Interface (API), should be workable for the client side software proposed by the tenderer and also be workable to client side software. Any offer for regulator side software without provision for supply of client side software will not be considered. The delivery period and the warranty period should be clearly mentioned in the technical bid document.

1.3 Procedure for submission of bids/tenders :

Each bidders shall submit offer in three sealed envelopes A, B and C. All the three envelopes should be enclosed in a single outer envelope and submitted, at the address stated in the table of Important Information, superscribed as "BID DOCUMENTS - Tender for Identification of Service Provider for Supply, Commissioning & Maintenance of the Central Server Software for Real Time Data Acquisition and Handling System for Emission, Ambient Air and Effluent Quality Monitoring in Madhya Pradesh" – NOT TO BE OPENED BEFORE THE DUE DATE ON 23.02.2017 at 3.00 p.m.

The envelop "A" shall contain earnest money and tender cost, if the tender document is downloaded from the web site. The envelop "A" shall be opened on 23.02.2017 at 3.00 pm in the presence of the bidders or their authorized representatives. Insufficient amount furnished as earnest money and tender cost shall make the offer liable for rejection.

The Envelop "B" shall contain all relevant technical documents such as evidences for doing similar nature of work, experience in the similar field, detailed list of infrastructure / available, copy of sales tax registration and Income Tax registration [PAN], copy of

undertaking regarding not being blacklisted, terms & conditions, company profile etc. Non – production of any of the documents may lead to rejection of the Bid / offers. Envelop “B” shall be opened only of those bidders who have submitted EMD and tender cost of valid/specified amount. The bidders who intend may be present at the time of opening of Bid. The envelop “B” shall be opened on 23.02.2017 at 3.00 pm.

Offers received in due time shall be evaluated technically by technical committee constituted by the Competent Authority, M. P. Pollution Control Board. The Committee may invite the bidders for the demonstration of their capability, pertaining to software requirement, on a specified day.

The envelop “C” shall contain financial offer in Form C#1 and C#2. The envelop “C” shall be opened only of those bidders who will be found suitable and recommended by the technical committee. The bidder shall submit copies of at least two recent supply orders of the similar nature indicating detailed price schedule along with “Envelop “C” (price bid) in order to examine reasonability of the quoted rates in the present bid. Notwithstanding anything stated above the competent authority of the Board reserves the right to assess the capability and capacity of the bidder to perform the contract, should the circumstances warrant such an assessment in the overall interest of the Board.

2.0 Technical Qualification Criteria:

MPPCB seeks proposals from experienced agencies for participation in tender for Identification of the Service Provider for Supply, Commissioning & Maintenance of the Central Server Software for Online Continuous Real Time Data Acquisition and Handling System for industrial Effluent, Emission and Ambient Air / Water Quality Monitoring in Madhya Pradesh State.

The technical-qualification criterion is as under:

Sl. No.	Pre-Qualification Criteria Description	Supporting Documents to be submitted by the service providers
1.	Legal Entity: Service provider must have registration under companies Act, 1956 and also registered with the Service Tax authorities and must have completed 2 years of existence as on Bid calling date.	Service provider should submit the following: a) RoC. b) Copy of Service Tax Registration Certificate.
2.	Turnover: a. The Service Provider should have a minimum turnover of Rs. 5.00 crores from IT based project with Software Application Development and Maintenance, Real Time Data Analysis Tools during any of the last 3 financial year 2013-14, 2014-15 and 2015-16 or Cumulative turn-over should be atleast 10 Crores during the last 3 financial year.	Service provider should submit any of the following: a) Copies of Certified audited Balance sheet / Profit & Loss statement of the company

	<p>b. Service provider should have positive net profit after tax during each of the last three financial years namely 2013-14, 2014-15 and 2015-16.</p> <p>Note: Turnover in areas other than mentioned above shall not be considered for evaluation</p>	
3.	<p>Past Experience</p> <p>The Service provider should have similar experience in Supply & maintenance of Central Server Software for Real Time Data Acquisition and Handling System in Central Govt. Deptt/State Govt Deptt/ PSUs. The service provider should have implemented at least 1 project worth Rs. 10 lakhs or above or two projects worth Rs. 5 lakhs or above. Copies of work orders claiming expertise in above areas (Work orders in the last 2 financial years i.e. 2014-15 and 2015-16) in support of claim.</p>	<p>Service provider should submit the following:</p> <p>a) Copies of Work orders.</p> <p>b) Copies of Installation and commissioning certificates.</p> <p>c.) Copies of Performance Certificates</p>
4.	<p>The Bidder should be ISO 9001 certified for quality of development of data related software.</p> <p>The Bidder should have ISO 27001 certification for Information Security Management</p>	<p>Copies of the Certificates to be enclosed</p>
5.	<p>Manpower Deployment</p> <p>The Service provider should have employed minimum 40 IT Professionals as on bid calling date. For this purpose, the term 'IT professional' means a person with a graduate degree or a higher qualification in Electronics/ Computer/IT from a recognized university employed by the company.</p>	<p>Service provider should submit the self-certification by the authorized signatory along with CVs of the professionals.</p>
6.	<p>Blacklist</p> <p>The Service provider should have no record of being blacklisted by any Central/state Government, Ministry or Agency for breach of Contractual Conditions as on bid calling date.</p> <p>The service provider should also not be entangled in any legal disputes with any Govt. / PSU body.</p>	<p>Service provider should submit Self declaration that the service provider is not black listed and is not in any legal disputes as on the bid calling date.</p> <p>Self-Declaration Certificate to be enclosed in the bid duly signed by the authorized signatory on its company letter head.</p>
7.	<p>Local Presence</p> <p>The service provider should have a local office as on date of bidding.</p>	<p>Service provider should submit self-certified office address.</p>

	Note: An undertaking in this regard should be submitted on the company letter head. If the service provider is not having Local presence, it has to open a local office within 15 days from issue of LoI and same must be communicated to MPPCB for future correspondence.	
8.	The service provider should have prior experience working on highly scalable large scale databases suited for storing time-series data	Service provider should provide credentials for handling large volume data and data security.
9.	The service provider should have experience in hosting the services at NIC domain or any of the State data center or PSU data center with approved security audit report	Service Provider should provide details of the application hosted and security audit certification or no vulnerability clearance.
10.	The service provider should have experience in developing Mobile application development and should have deployed atleast 2 Mobile Application in Playstore and iOS AppStore	Service provider should submit the details of the mobile application and proof of production usage at the time of calling the bid.

Note:

- i.) Relevant supporting documents (all the bid pages stamped and ink signed by authorized person) should be furnished without fail otherwise the bid will be treated as "non-responsive" and rejected.
- ii.) Any service provider who offers discounts/ benefits suo-moto after opening of commercial bid(s) will be automatically disqualified from the current bidding process without any prior notification and also may be disqualified for future bidding processes.
- iii.) No deviations of whatsoever nature are allowed in the pre-qualification criterion.
- iv.) Representations received from the service providers within 3 days from the date of opening of technical bids on the issues related to Pre-qualification/Technical bids evaluation will only be accepted. Representations received beyond this period will not be considered and strictly rejected.
- v.) If the service provider is not having local presence, it has to open a local office within 15 days from the issue of LoI and same must be communicated to MPPCB for future correspondence.
- vi.) Any deviation shall be treated as termination of contract and shall attract the liability as specified in the Tender.
- vii.) Service provider shall not have conflict of interest that may affect the bidding process or the Service provider. Any applicant found to have a Conflict of Interest shall be disqualified.

3. Introduction

About MPPCB :

The M.P. Pollution Control Board was constituted in September 1974 under the Provisions of Water (Prevention & Control of Pollution) Act 1974. This organization is a regulatory body and is looking after implementation of various Environmental Acts and Rules. The abatement and control of pollution is a key role which is done through regular monitoring and constant vigil of various environmental components. With the advancement of technology the monitoring trend is fast changing. Induction of online continuous real-time monitoring is the recent feature being used to keep a watch on industrial pollution. Pollution monitoring data generated from industries on continuous basis, with the help of real-time monitoring systems, needs to be checked for authenticity and validated for policy planning, regulatory and pollution prevention purpose. The task of validation and management of real-time monitoring data can be handled through customized system and software in a better way and this has led to the concept of this project.

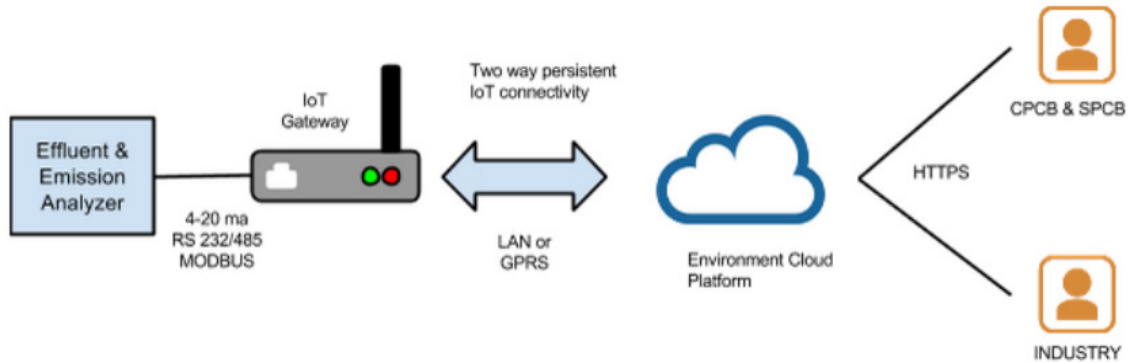
Objective:

1. To establish a real time online monitoring system for monitoring the Effluent, Emission and Ambient air parameters from various industries located across the Madhya Pradesh.
2. To acquire accurate and high integrity real time measurements of the effluent, emission and ambient air parameters directly from the analyzers installed at the industry site without any intermediate conversions, logics or changes.
3. To detect exceedance of monitored parameters for the prescribed standards and provide real time alerts on the same.
4. To provide a multi-client open architecture platform that supports any analyzer (make and model) and on a single integrated Central database system which supports all type of communication between the industry and the regulator.
5. To provide a unified web based access controlled platform accessible from Madhya Pradesh Pollution Control Board Headquarters, all Regional offices and all Industry sites in the state based on the given authorization level.

4. Scope of Work

The Central Software should have a web application to view, generate default reports, analyze the collected data, generate custom reports and corroborate with industry for various exceedance and failures. The web application should be supported on major browsers like FireFox, Chrome, Safari, Internet Explorer 11. The user interface should be responsive and support rendering on tablets, smart phones and desktops.

4.1 Environment Data Transfer



4.2 Capabilities:

4.2.1. General

1. The most fundamental requirement is to have a universal format of connectivity that can accept real time data from any analyzers (make or model) installed in the industry. Industry can choose any analyzer make and model that is approved internationally or by the Central Pollution Control Board for monitoring the effluent, ambient air and emission parameters, thus, the existing investment in the equipment by the industry can be utilized.
2. The system should be a highly scalable client server application where the client software resides in the industry site and the central server software resides at the central location at MPPCB or NIC.
3. Provide a highly scalable system that can connect more than 1000 industries simultaneously in real time with a non-proprietary highly scalable backend database suitable for storing Time Series Data.
4. The system should support multiple client software that are found suitable to the requirement and approved by the M.P. Pollution Control Board, which can send data to the central server.
5. The central server software should expose authenticated Representational State Transfer (REST) based Application Programming Interface (API) for client software to transmit the data.
6. The client software should NOT be restricted to the requirement of static IP and should be able to connect to the server based on the exposed API.
7. During collection and transmission, the platform should utilize digital encrypted communication to ensure authentic data is received and data origination location (GPS coordinates) and source signature are also verified by the software.

8. The client software should be able to transmit the data to server using minimal bandwidth using existing site leased line/broadband LAN/GPRS/GSM connectivity or by using an external dongle as an alternative for establishing online connectivity.
9. The software should provide reporting capabilities to display trend graphs, configurable alerts, tabular data, charts, wind-rose chart and data validation interface.
10. The software should provide two-way communication and have the ability to capture and display internal registers / protocols of the field instruments.
11. The software should be capable of providing remote calibration of field instruments.
12. The software application should have inbuilt ability to view the IP Camera without any kind of browser plug-in, add-ons or Desktop software.
13. The software should be able to control the IP camera and use the PAN, TILT and ZOOM functionality without any kind of plug-ins.
14. The software should provide the ability to annotate the validated data with the industry comments and data quality codes. The annotations should be visible while viewing the data in the charts.
15. The software should also provide ability to develop custom made on-demand reports with capabilities to export the data into PDF, CSV and Excel formats. The reports developed should be printable on any of the standard printers.
16. Entire Source code of the software should be provided to the M.P. Pollution Control Board and the board should have the ability to review any specific module to validate the business logic and the data handling process. Strictly "NO" proprietary software or code is allowed. The application source code including the real time data captured, processed and stored will remain the property of MPPCB at all times.
17. The ability to generate the encryption keys for the Client side software should be provided to the M.P. Pollution Control Board, so that the board can provide authorized keys to the individual sites for secured data transmission. There should not be any financial implication to MPPCB for generation of such keys and it should be a software feature.

18. Publishing of data should be at the end of the regulator and should have necessary components inbuilt in the system to publish valid data only.
19. Should have provision to share the database with the CPCB server database as and when required.
20. The platform should support advanced Analytics on air modeling and be able to generate the following reports by default on the platform
 - A. Percentile Rose
 - B. Summary Profile
 - C. Quartile Analysis Report

4.2.2 Client Side Software Requirements

Data Collection and Transmission Module

1. The data collection and transmission module should directly connect to the analyzer installed at the industry end and fetch the data directly from the analyzer without any intermediary software or conversions and without any PC or server. The software should have no editing provision for altering/correcting the data at the industry side.
2. No data shall be accepted as an output from OPC Server or DCS or any other intermediate software at Industry side.
3. The data collection and transmission module should encrypt the data with unique client specific encryption key to ensure authentic data transfer from the industry to the central server. Only encrypted and authenticated data shall be received by the Central Server Module.
4. During internet connectivity failure or a communication issue with the central server, the data collection and transmission module should store the encrypted data locally and retransmit when the transmission is restored. Any such delayed transmission should be identifiable at the regulator side using data quality codes.
5. The data collection and transmission module should wait for acknowledgement from the server and should retransmit the data if no acknowledgement is received within the timeout period.
6. The data collection and transmission module should support remote analyzer configuration. The data collection and transmission module should accept remote analyzer configuration commands and update the analyzer configurations with the set value.

7. Each measurement should be associated with the data quality code inferred while data collection and the data quality code should be transmitted along with the data. The data quality code should indicate analyzer failures, analyzer communication failures etc.
8. Software should support reading analyzer configuration and report the configuration changes to the central server. Any configuration changes done at the site should have audit trail and reported to the regulator for approval in the form of workflow.
9. The data collection and transmission module should accept commands for calibration (auto and manual) and able to perform calibration of the analyzer locally.
10. The data collection and transmission module should be able to collect the data directly from the analyzer with a minimum scan interval of 10 seconds.
11. Data collection and transmission shall be minimum 15 min or other mean average period selectable by user.
12. The data collection and acquisition software should be able to collect and encrypt the data locally on the industry site.
13. The data collection and transmission module should communicate the status periodically to the central server even when no analyzer is connected or when analyzer is faulty with appropriate data quality code.
14. The data collection and transmission module should auto-restart on failure or machine reboots.
15. The data collection and transmission module should be able to transmit the data over Broadband/LAN/Wi-Fi/GPRS/GSM etc.
16. The data collection and transmission module should support any analyzer, make and model based on the configuration and protocol specific extensions (analyzer suppliers should be open enough to share their analyzer output protocol for easy data transmission digitally).
17. The data collection and transmission module should be customizable to support any specific protocol required.
18. Data collection and transmission module should be able to support protocol extension hooks and API.

19. The Central Server should publish an open Application Programming Interface (API) to support different client side software. Any vendor supplying the data collection and transmission module should comply with the API. The client side software requirement shall be demonstrated at MPPCB. Data transmitted only from such demonstrated and proven client software will be accepted by the Central Server Module.
20. There should not be any financial burden to the client industries for this service.

4.2.3 Central Server Software Requirements

Regulator side software:

1. The Central Server Module should provide a backend processing services for transmitted data and a highly scalable backend database capable of storing time-series data acquired from the industry site.
2. The database should be able to support data storage and query for 10 years of data collected from all the industry sites with minimum of 1-minute interval.
3. The database should be scalable to support 1000+ concurrent connections and should be able to store and process more than 100 Terabyte of data.
4. The Central Server Module should have pre-configured threshold limits for the various monitored parameters based on the industry type as per the Central Pollution Control Board directives for each of the industry types.
5. The Central Server Module should support remote configuration of the industry site parameters from the MPPCB Head Quarters.
6. The Central Server Module should generate automated alarms and alerts based on parameter exceedance, data connectivity failure, analyzer failures, etc.
7. The Central Server Module should be able to identify delayed data published from the industry site due to network connectivity failures and mark those data separately from the live connected data.
8. The Central Server Module should be able to send pre-configured template based SMS and Emails for alerts and alarms generated based on the configured rules. This feature should be a built-in capability of the Central Server Module and not external application software.
9. The Central Server Module should have facility to transfer data to other server at regulator side at periodic interval for data backup and recovery requirements.
10. The Central Server Module should be able to generate report on alarms/events and exceedance with industry wise consolidation and period wise say weekly, monthly, annually etc.
11. The Central Server Module should provide automatic notification to the industry site and regulator inbox for all new notifications and action items like fixing communication issues, analyzer problems etc.
12. The Central Server Module should be able to support data encryption and security at the server side. The data received from the site should be decrypted and data authenticity ensured.
13. The Central Server Module should be able to collect data from the industry sites even when one of the central server is down and thus provide redundancy.

14. The Central Server Module should be able to identify which client software and version send for specific data and capture the IP address from which the data was sent for audit purposes.
15. The central server should be available 24x7 for 365 days for data collection. The system should provide automated redundancy so that industry site should be able to send the data continuously.
16. The Central Server Module should support data export in ISO -7168 format.
17. The Vendor should provide the central server software and workstation software. The central server software will do all the data processing and storage management. The workstation software installed should provide the regulator with functionality (Web Interface Module) without the need to directly login to the central server. Minimum of one Workstation software licensed should be provided by the vendor.
18. The software on Regulator side should be *Highly scalable database capable of storing time-series data like Cassandra, Hbase, Graphite, Open TSDB, Influxdb, IBM Informixwith Timeseries blade or similar.*

4.2.4 Web-Server Interface Requirement : (Apache httpd, nginx)

a). General Requirements:

1. To view, generate default report, analyze the collected data and corroborate with industry for various exceedance and failures.
2. The Web Server Interface Module should provide a User Interface presented in the browser should be very user friendly and intuitive following the best practices in web based user interface design.
3. The User Interface should be supported on major browsers like FireFox, Chrome, Safari etc. The user interface should support rendering on a Tablet, smart phones which supports these browsers.

b) Configuration Management

1. The Web Server Interface module should provide the user interface to configure the site, monitoring station, analyzers, calibrator and measured parameters. The detail screens for site configuration, monitoring station configuration, analyzer configuration and parameter configuration should be available.
2. The Web Server Interface module should have list of supported analyzers make and model for the major analyzers used in the Industry.
3. The Web Server Interface module should support grouping of industry sites, industries across geographic dimensions like district, city, etc. and other custom attributes (like industry type) selected by the regulator.
4. The Web Server Interface module should allow configuration of analyzer parameters, channels etc. for a particular site.

c) Alerts and Alarms

1. The Web Server Interface module should provide an interface to view and list all alarms and alerts. There should be a filter to view only new alerts and alarms.
2. The Web Server Interface module should provide an interface to acknowledge the alarms and alerts to industry and regulator. Once acknowledged, the alarms and alerts should disappear from the list.

d) Remote Calibration

1. The Web Sever Interface module should support configuration of *remote* calibration of the analyzer
2. The Web Sever Interface module should have the ability to provide various manuals/online calibration sequences, schedules for remote calibration and reports.
3. The Web Server Interface module should support calendar view of all the automated calibration schedule and sequence.

e) Security

1. The Web Server Interface module should have facility for data viewable in non-editable format for Regional offices of the MPPCB for Industries under their jurisdiction.
2. Each industry should be able to view and generate default reports for the data generated for their industries based on the access provided.
3. The Web Server Interface module should support configurable user authentication levels to support different roles for Head office, Region offices and industry site access
4. The Web Server Interface module should support creating and managing new users and their access levels.

f) Data Validation

1. The Web Server Interface module should provide user interface for data validation and approval. The regulator should be able to select a particular time range and approve/reject the data with proper comments.
2. The Web Server Interface module should support manual and automated data validation and approval workflow to review various industry site data and approve by providing appropriate comments based on the data quality.
3. The Web Server Interface module should provide ability to annotate the data with the specific events/comments provided by the industry such as maintenance schedules, breakdown, analyzer fault etc.
4. Open API should support ISO 7168 Format.

g) Corroboration and Workflow

1. The software should support corroboration between the industry site and regulator by providing a built in workflow feature and an inbox feature. This feature should be a built-in functionality of the central server module and the web interface module and not additional software running separately to ensure that there is integration with the reporting module.
2. Whenever there is any exceedance or analyzer failure or analyzer connectivity failure, an action item should be generated in the industry site inbox. The industry site personnel should be able to update with the corrective actions and

- comments. These comments/reasons should show upon the graphs when the data for that particular period is viewed.
3. Industry site should be able to inform the regulator of different maintenance events (site maintenance, site breakdown, analyzer breakdown etc.) using workflow feature of the Web Interface Module.
 4. The system should automatically generate events and inbox messages based on the exceedance thresholds and alerts configured.
 5. The system should provide the history of communication between the industry site and the regulator for specific events/workflows.
 6. Various events like communication failures, analyzer failures, exceedance etc. and corresponding reasons should be available for reporting. There should be standard reports for viewing industry level statistics for communication failures, analyzer failures, power failure, exceedances etc.

h) Reports

- a. The Web Server Interface module should support standard reports for each industry site based on the exceedance threshold, hourly average, and monthly average etc.
- b. The Web Server Interface module should have both default reports and also reports generatable by the end user as per requirements.
- c. The Web Server Interface module should be able to support different data quality code and report data based on representativeness and data quality. Statistical significance of data should be reportable in respect to data density.
- d. The Web Server Interface module should generate report on approved and validated data. There should also be a capability to see the raw data collected from industry site within the reports.
- e. The Web Server Interface module should be able to generate wind rose and pollution rose based on the wind data collected from the various sites.
- f. Grouping area wise Industries and selecting one meteorological station in that group should generate reports of pollution rose and wind rose details.
- g. The Web Server Interface module should have capability to compare, group sector wise industries, analyzers and generate report in desired form, i.e. text, numeric and graphical.
- h. The Web Server Interface module should support ability to export the reports data to csv, pdf and text file as and when required.
- i. The Web Server Interface module should have provisions to accommodate printers of different model and make.
- j. The Web Server Interface module should support ability to develop custom reports by the regulator based on the data analysis requirements. The report generated should be in both graphical and tabular form.
- k. The software should be able to select the data quality code, the data representativeness, the time window and the site specific parameters for generating reports.
- l. The Web Server Interface module should provide daily status of each industry site and provide metrics on data quality and representativeness.

- m. Report should be able to calculate differential data from two parameter reading and show the trend of differential data. This feature is required for temperature difference measurements and alerting.
- n. Should have feature to make calculations on raw data obtained from analyzer and generate alerts and reports.
- o. The web Server interface module should provide custom reporting capabilities to support regulator's present and future requirements.
- p. The reports should have the capability to show both raw data and approved/validated data.
- q. There should be a provision to create custom charts from the Web Interface Module. There should be a support to add new charts and dashboards as per the requirements.
- r. Should provide optional features such as to connect the data to the display board.

i) Live Status

1. The Web Server Interface module should support real time view of the data from all the industry sites for all the parameters configured for monitoring.
2. The Web Server Interface module should support geo-location of the industry using specific latitude - longitude or as per cartographic coordinates overlay on a map and present information of industry, parameters connected and present value either graphically or numerically display.
3. The software should be able to show the status of each of the sites in a geographic map and should show alerts and alarms based on system failures and parameter exceedance.

4.2.5 Facilities to be provided by M.P. Pollution Control Board (MPPCB).

- a. Physical space for setting up the Air Quality Monitoring Servers, UPS, and Workstations.
- b. Manpower to monitor and manage the Monitoring Center at MPPCB
- c. Dedicated broadband internet with minimum speed of 4 Mbps with 1: 1 Compression payload.
- d. Furniture, Fixtures, Electrical Wire, Telephone, LAN Network cabling at the space provided.
- e. The required hardware for the proposed solutions should be indicated by the bidder in the TQ Stage along with item wise specifications and the same shall be arranged by _____ the _____ MPPCB.

5. Payment Terms, Penalties, Contract Period

Payment Schedule

Particular	% of Payment
Supply, Commissioning of the Solution & Training to the Department Staff	75% of the Project Value
Go-Live & Successful User Acceptance	25% of the Project Value

Penalty

The penalty will be imposed as below:

1. @ 2% on Project Value for delay by 1 week in supply & installation of solution and increases @ of 0.25% of Project Value for every additional week delay.
2. During the O&M phase, the deployed solution shall be running with 99.5% efficiency & uptime. Any deviation shall be liable for penalty of Rs. 1,000/- per day.

Project Timelines:

The identified bidder should supply the required solution within '45' days from the date of dispatch of Notification of Award /Letter of Intent.

Contract Agreement:

The Contract Agreement is for a period of Three years and the contract agreement shall be signed by the User Department with the Successful Bidder upon submission of Performance Bank Guarantee by the bidder to the User Department.

6. Conditions of Bidding

6.1 Completeness of Response

- a. Service providers are advised to study all instructions, forms, requirements and other information in the RFP documents carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications.
- b. The response to this RFP should be full and complete in all respects. Failure to furnish all information required by the RFP documents or submission of a proposal not substantially responsive to this document will be at the Service provider's risk and may result in rejection of its Proposal.
- c. At any time prior to the last date for receipt of bids, MPPCB may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Service provider, modify the RFP document by a corrigendum.
- d. The Corrigendum (if any) & clarifications to the queries from all service providers will be on the portal www.mppcb.nic.in.
- e. Any such corrigendum shall be deemed to be incorporated into this RFP.
- f. In order to provide prospective Service provider's reasonable time for taking the corrigendum into account, MPPCB may, at its discretion, extend the last date for the receipt of RFP Proposals.

6.2 Right to terminate the process

- a. MPPCB may terminate the RFP process at any time and without assigning any reason. MPPCB makes no commitments, express or implied, that this process will result in a business transaction with anyone.
- b. This RFP does not constitute an offer by MPPCB. The service provider's participation in this process may result in short listing of the service provider.

6.3 Preparation of Proposals

- a. The Technical Proposals shall contain an Executive summary giving a brief overview of the manner in which the service provider proposes to achieve the outcomes and the assessment of resources required.
- b. The service provider is expected to submit the Technical Proposal as per the format given in Appendix - I. Submission of the wrong Technical Proposal will result in the proposal being deemed non-responsive. The Technical Proposal shall not include any financial information.
- c. The Financial Proposal shall be prepared as per the format given in Appendix - II.

6.7 Submission of Responses

- a. The service provider shall submit bid related information in 3 envelopes as stated earlier.
- b. The proposal shall contain no interlineations or overwriting, except as necessary to correct the errors made by the service providers themselves. The same authorized representative who has signed the proposal shall initial the corrections.
- c. An authorized representative of the service providers shall initial all the pages of the original Technical and Financial Proposals. The authorization shall be in the form of written power of attorney accompanying the proposal and supported by evidence that the representative has been duly authorized to sign.
- d. The service provider shall submit one softcopy of the Technical Proposal in the form of a non-rewritable CD. The CD media must be duly signed using a permanent pen marker and should bear the name of the service provider.
- e. Service provider must ensure that the information furnished in the CD is identical to that submitted on paper. In case of any discrepancy, the information furnished in hard copy will prevail.

6.8 Bid Submission Format

- a. The entire proposal shall be strictly as per the format specified in this RFP and any deviation may result in the rejection of the RFP proposal.
- b. The documents to be submitted for *Technical Proposal* are:
 - i.* General Information of the Service provider – *Form TQ#1*
 - ii.* Financial Turnover – *Form TQ#2*
 - iii.* Past experience – *Form TQ#3*
 - iv.* Manpower available with relevant Experience – *Form TQ#4*
 - v.* Self Declaration Certificate – *Form TQ#5*
 - vi.* Local Presence – *Form TQ#6*
 - vii.* Understanding of the Project & Implementation methodology – *Form TQ#7*
 - viii.* Hardware Proposed with Specifications - *Form TQ#8*
 - ix.* Tender document fee
 - x.* Power of Attorney
 - xi.* Technical capability of the supplier by providing installation and commissioning certificates as well as performance certificates as per the projects being quoted under Past experience in *Form TQ#3*

xii. Additional documents as listed in the RFP or otherwise.

c. The documents to be submitted for *Commercial Proposal* are:

- i. Commercial Proposal submission - *Form C#1*
- ii. Financial Proposal Cost Break-up - *Form C#2*

6.10 Short listing Criteria

- a. MPPCB will shortlist service providers who meet the Technical Qualification criteria mentioned in this Invitation to RFP.
- b. Any attempt by a Service provider to influence the bid evaluation Process may result in the rejection of its RFP Proposal.
- c. MPPCB will constitute a Bid Evaluation Committee to short-list the service providers according to the Technical Qualification criteria given in this document.

6.11 Evaluation Process

- a. The evaluation will be in 2 stages i.e. Technical Qualification (TQ) & Commercial proposal submitted by the service providers.
- b. The service providers will be shortlisted based on the Technical Qualification criteria as given in RFP document.
- c. The service providers who qualify in TQ evaluation will be eligible for Financial Bid.
- d. The service providers scoring >75 marks in Technical Evaluation will be considered for Financial Evaluation.
- e. The Financial Proposals of the service providers who have qualified in the Technical Evaluation will be evaluated.
- g. The overall method of evaluation is Quality cum Cost Based Selection (QCBS (70:30)) only. The Technical Evaluation Score will be given a weightage of 70% and the Financial Evaluation Score, a weightage of 30%, to arrive at the overall score. The bidder who scores the highest overall score will be considered for selection.

Note: MPPCB may ask service providers at this stage to give Technical Presentation on their Technical solution. Venue, Date & time will be communicated to the service providers at a later date.

Technical Evaluation Criteria

Technical Committee will evaluate the Technical Proposals of the service providers as per the following criteria:

Sr. No.	Technical Parameter - Checklist	Max score
I.	Past Experience & Turnover	25
1.	The Bidder shall have similar experience in Supply & maintenance of Central Server Software for Real Time Data Acquisition and Handling System in atleast '1' Central/State Government Depts/ PSUs during the last 2 years. The overall cost for such a project should be 10 lakhs or above.	20

	>1 Projects (20 marks) 1 Projects (10 marks)	
2.	Organization Strengths (Turnover, profitability for the last 3 years) The Firm having highest Turnover will get max score & the other firms obtaining the turnover within the range of maximum to minimum turnover will be assigned scores on prorated basis. The minimum score for the turnover reported is 3 points.	5
II.	Engagement Approach (bidder to elaborate)	75
1.	Proposed Solution Design: (Max 10 marks) <ul style="list-style-type: none"> ••Data Collection and Transmission Module ••Security ••Data Validation ••Workflow ••Reports Data Handling System Methodology (Max. 10 marks) Project Plan covering specific activities of Development, Testing, Training plan, Rollout and Deployment (Max. 5 marks)	25
2.	Software Feature and demonstrate Live Camera integration capability without Plug-in with PTZ Controls	10
3.	Live Demonstration of the capabilities of the Central Server Software demonstrating the following features. <ul style="list-style-type: none"> ••Acceptance of multi-client industry side software ••Remote calibration of the Analyzer ••Real Time Alerts and SMS ••Demonstration of Delayed Data Handling ••Demonstration of Analyzer Diagnostics Capture in Real Time ••Demonstration of Pre-build Reports and Custom Reports ••Demonstration of Security Features for different logins ••Demonstration of the Integrated Workflow for Industry Communication 	25
4.	Proposed Team Structure with Skill & Experience of the Team during & post implementation. Details of Team and size focusing on R&D and the progress during the last 1 year by the R&D Team <ul style="list-style-type: none"> ••Team - Qualifications (25%) ••Similar Relevant Experience as below :(75%) * Team Members Experience in communication with analyzers and Protocols for integrating any analyzers (make and model) * Experience in Big Data applications and Large Scale Data Handlings	5
5.	Provide advanced Analytics using Integration of tools on the platform as a single application on all the data available in the platform.	5

6.	Existing capability for Operations & Maintenance along with helpdesk setup and escalation mechanism	5
Total (I + II)		100

The bidders should be ready to make presentation to the bid evaluation committee on the offered solution during the technical bid evaluation. Bidders are required to focus on the parameters in the technical evaluation criteria.

6.12 General Instructions

- While every effort has been made to provide comprehensive and accurate background information and requirements and specifications, Service Providers (SPs) must form their own conclusions about the solution needed to meet the requirements.
- All information supplied by SPs may be treated as contractual binding on the SPs, on successful award of the assignment by MPPCB on the basis of this RFP.

6.13 General Eligibility

- SPs marked / considered by MPPCB for non-satisfactory past performance, corrupt, fraudulent or any other unethical business practices shall not be eligible.
- Breach of general or specific instructions for bidding, general and special conditions of contract with MPPCB or any of its user organizations may make a firm ineligible to participate in bidding process.
- The selected single SP shall not outsource the work to any other associate / sister concern / franchisee / 3rd Party SP under any circumstances. Any violation may invite imposition of sanctions, which shall include forfeiture of the security deposit, revocation of bank guarantees (including the ones submitted for other work orders) and termination of the Contract for default.

6.14 Earnest Money Deposit and its amount (EMD)

- a. SPs shall submit, along with their bids, EMD of INR 20,000 (Rupees Twenty thousand only) in the form of Demand Draft drawn from any scheduled / nationalized bank in favour of **Member Secretary, MPPCB** payable at Bhopal, valid for three months from date of bidding.
- b. No interest will be payable to the SP on the amount of the EMD.
- c. Unsuccessful SP's EMD will be discharged/ returned as promptly as possible, but not later than 45 days after the award of the contract to the selected implementation agency.
- d. The EMD may be forfeited:
 - If a SP withdraws his bid or increases his quoted prices during the period of bid validity or its extended period, if any; or
 - In the case of a successful SP if the SP fails to sign the contract for any reason not attributable to MPPCB or to furnish Performance Bank Guarantee within specified time in accordance with the format given in the RFP.

- Bids Submitted with EMD not Valid to the specified period will also be rejected

6.15 Authentication of Bid

All the copies submitted in the bid shall be typed or written in indelible ink. The original and all copies (hard copies) shall be signed by the SP's duly authorized person to bind the SP to the contract. A letter of authorization shall be supported by a written power of attorney accompanying the bid. All pages of the bid, except for un-amended printed literature, shall be signed and stamped by the person or persons signing the bid.

6.16 Late Bids

Any bid received by MPPCB after the bid submission deadline prescribed in the Bid Data Sheet shall be rejected and returned unopened to the SP after the award of work.

6.17 Withdrawal of the Bids

The SP may withdraw their bids after submission, provided MPPCB receives information one-day prior to the deadline date prescribed for bid submission receives a written consent. No bid can be withdrawn after expiry of time allowed for withdrawal of bid till bid validity period. Withdrawal of bid during this prohibited period will result in forfeiture of bid security (EMD).

6.18 Disqualification of bids

MPPCB may at its sole discretion and at any time during the processing of tender, disqualify any SP from the tendering process if the SP has:

- i. Submitted the tender after the prescribed date and time of submission of bids.
- ii. Made misleading or false representations in the forms, statements and attachments submitted in proof of the eligibility requirements.
- iii. If found to have a record of poor performance such as abandoning works, not properly completing the contract, inordinately delaying completion, being involved in litigation or financial failures, etc.
- iv. Submitted bid document which is not accompanied by required documentation and Earnest Money Deposit (EMD) or non-responsiveness.
- v. Failed to provide clarifications related thereto, when sought.
- vi. If the technical offer contains any price information the offer will be summarily rejected.
- vii. Conditional bids will be summarily rejected.
- viii. Applicants who are found to canvass, influence or attempt to influence in any manner the qualification or selection process, including without limitation, by offering bribes or other illegal gratification, shall be disqualified from the process at any stage.
- ix. If found to submit more than one bid.

6.19 Bid Submission Format

The entire proposal shall be strictly as per the format specified in this Request for Proposal. Bids with deviation from this format shall be rejected.

6.20 Opening of Bids

Bids will be opened in the presence of SP's representatives who intend to attend. The SP representatives who are present shall sign a register as part of evidence. The SPs names,

bid modifications or withdrawals, discounts, and the presence or absence of requisite bid security and such other details of MPPCB officer at his/her discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened. No Commercial bid shall be rejected at the time of Technical Bid Opening.

6.21 Clarification of Bids during Evaluation

During evaluation of the bids, MPPCB may, at its discretion, ask the SP for clarification of its bid content and seek information.

Preliminary Examination of the Bids

- Preliminary scrutiny will be made to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished,

whether the documents have been properly signed and stamped, and whether the bids are generally in order.

- Arithmetical errors will be rectified on the following basis :

If there is a discrepancy between the unit price and the 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 the SP does not accept the correction of the errors, its bid will be rejected and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.

- MPPCB may waive any minor informality; nonconformity or irregularity in a bid that does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any SP.

- Prior to the detailed evaluation, MPPCB will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these clauses, a substantially responsive bid is one, which conforms to all the terms and conditions of the bidding documents without material deviations.

- If a bid is not substantially responsive, it will be rejected by MPPCB.

6.22 Contract Finalization and Award

If service agreement is not finalized with the SP ranked first, MPPCB may proceed to the next ranked SP, and so on until a contract is awarded.

6.23 Award Criteria

MPPCB will award the contract to the SP whose bid has been determined to be substantially responsive and has been determined as the best value bid provided further that the SP has demonstrated that it is qualified to perform services required for the project satisfactorily. The notification of the award shall constitute signing of the agreement. The signing of agreement will amount to award of contract and SP will

initiate the execution of the work as specified in the agreement. At the same time as MPPCB notifies the successful SP that its bid has been accepted, MPPCB will send the SPs the proforma for contract, incorporating all agreements between the parties. Within 2 week's time, the successful SP shall sign and date the contract and return it to MPPCB.

6.24 MPPCB's Rights to Accept / Reject any or all Proposals

MPPCB reserves the right to accept or reject any proposal, and to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected SP or SPs or any obligation to inform the affected SP or SPs of the grounds for MPPCB's action.

6.25 Bid Prices

The SP shall express their bid price for the information system using the price schedule form provided in the bidding documents. All costs and charges related to the bid shall be expressed in Indian Rupees. The SP shall give the total composite price inclusive of all Levies & Taxes i.e. Sales Tax / VAT / Service Tax & Excise, packing, forwarding, freight and insurance etc. but excluding Octroi / Entry Tax which will be paid extra as per actual, wherever applicable. Prices of incidental services should also be quoted. Prices indicated in the Price Schedule shall be entered in the following manner:

- DISCOUNT, if any, offered by the SPs shall not be considered unless specifically indicated in the price schedule. SPs desiring to offer discount shall therefore modify their offers suitably while quoting and shall quote clearly net price taking all such factors like Discount into account.
- The price approved by MPPCB for procurement will be inclusive of Levies and Taxes, packing, forwarding, freight and insurance.

6.26 Bid Security

The Bid Security shall, be in the form of a Demand Draft from a Scheduled bank located in India and having at least one branch in Bhopal in the form given in bid document. The bid security of the successful SP will be returned after signing the Agreement and furnishing the required Performance Bank Guarantee.

6.27 Bid Opening and Evaluation

Bid Evaluation Committee

The bid evaluation committee constituted by the MPPCB shall evaluate the tenders. The decision of the bid evaluation committee in the evaluation of the Technical and Commercial bids shall be final. No correspondence will be entertained outside the process of negotiation / discussion with the committee.

Overall Evaluation

- Bid evaluation committee will evaluate and compare the bids determined to be responsive. It is bid evaluation committee's intent to select the proposal that is most

responsive to the project needs and each proposal will be evaluated using the criteria and process outlined.

➤ • Technical bids shall be examined by the bid evaluation committee with respect to compliance, completeness and suitability of the proposal to the project and only the bids which are in compliance to the requirements mentioned in the RFP shall be considered as technically qualified.

➤ • Total bid evaluation: The commercial bids of only those SPs, qualified in the technical evaluation, shall be opened.

➤ • The evaluation shall be strictly based on the information and supporting documents provided by the SPs.

➤ • The evaluation Committee shall shortlist such SPs who fulfill all the eligibility criteria and comply with the requirements for issue of Request for Proposal (RFP).

Commercial Bid Evaluation

• • Commercial Bids of only those SPs will be opened who are found Technically qualified.

• • Final choice of firm for the project shall be made on the basis of conformity to technical qualification, and only **L-1 bid** shall be considered.

6.28 Adjudicator

The Chairman, MPPCB will be the Adjudicator for contract disputes. The Client and the SP will share the service charges @Rs.10, 000/- per day as daily fee for the Adjudicator.

6.29 Confidentiality

Information relating to evaluation of proposals and recommendations concerning awards shall not be disclosed to the bidders who submitted the proposals or to other persons not officially concerned with the process, until the award of contract is notified to the successful firm.

6.30 Assumptions and Exclusions:

The SP should state clearly the assumptions and exclusions based on which he/she is bidding for the contract.

7. General Terms and Conditions (GCC)

7.1. Contract and Interpretation

In this Contract, the following terms shall be interpreted as indicated below and the solution provider must bind all the definitions and prepare financial quotations.

• • Applicable Law means the Contract shall be interpreted in accordance with the laws of the Republic of India.

• • Service Provider (SP)/Bidder means any firm offering the solution(s), service(s) and/or materials required in the tender call. The word SP when used in the pre-award period shall be synonymous with SP and when used after award of the contract shall mean the successful SP with whom client signs the contract for rendering of goods and services.

• • Client / User means the Madhya Pradesh Pollution Control Board.

- Contract: means the agreement entered into between the Client and the SP, as recorded in the Contract Form signed by the parties including all attachments and appendices thereto and all documents incorporated by reference therein.
- Contract Price means the price payable to the SP under the Contract for the full and proper performance of all its contractual obligations.
- SP's representative means the duly authorized representative of the SP, approved by the Clients and responsible for the SP's performance under the contract.
- Firm means a company, authority, co-operative or any other organization incorporated under appropriate statute as is applicable in the country.
- GCC means these General Conditions of Contract.
- Goods when used singly shall mean the hardware, firmware component of the goods and services.
- Goods and services mean the solution(s), service(s), materials or a combination of them in the context of the tender call and specifications.
- Incidental services means those services ancillary to the supply of the goods and services, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other such obligations of the SP covered under the contract.
- Performance security means on receipt of notification of award from the User, the successful SP shall furnish the security in accordance with the conditions of contract, in the performance security form provided in the bidding documents.
- Technical bid means that part of the offer which provides information to facilitate assessment, by MPPCB professional, technical and financial standing of the SP, conformity to specifications etc.
- Products mean all of the equipment, Hardware, Software, supplies and consumable items that the SP is required to install or provide under the contract, plus the associated documentation.
- Project sites means the place or places named in the schedule or requirements for delivery of goods and services.
- Specification means the functional and technical specifications or statement of work, as the case may be.
- Tender call or invitation for bids means the detailed notification seeking a set of solution(s), service(s), materials or any combination of them.
- Warranty Period is the period specified in the GCC or SCC, following Acceptance of the deliverables, during which the SP's warranty obligations in respect of the delivered materials are in force. During the warranty period the SP has to keep all the deliverables in safe custody.

7.2. Confidentiality

The SP must maintain absolute confidentiality of the documents / maps / tools collected in any form including electronic media and any other data/information provided to him for the execution of the work. The SP must remove / destroy the entire data from his custody after completion of the warranty period. If at any stage it is found that the SP is using the data provided by the client any time during the contract execution or after completion of the contract for any other purposes, stringent legal

action will be initiated as per applicable law of the land and the contract will be terminated without assigning any reasons.

7.2.1. Use of documents and Information

- The SP shall not, without prior written consent from MPPCB, disclose / share / use the bid document, contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the MPPCB in connection therewith, to any person other than a person employed by the SP in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- All project related document (including this bid document) issued by MPPCB, other than the contract itself, shall remain the property of the MPPCB and shall be returned (in all copies) to MPPCB on completion of the SP's performance under the contract.

7.3. Indemnification

- The SP shall, at its own expense, defend and indemnify the Client against all third-party claims of infringement of intellectual property rights, including patent, trademark, copyright, trade secret or industrial design rights arising from use of the products or any part thereof in the Client's country.
- The SP shall expeditiously extinguish any such claims and shall have full rights to defend itself there from. If the Client is required to pay compensation to a third party resulting from such infringement, the SP shall be fully responsible thereof and shall pay including all expenses and court and legal fees.
- The Client will give notice to the SP of any such claim and shall provide reasonable support to the SP in disposing of the claim.

7.4. Bid Security, Payments, Guarantees and Liabilities

7.4.1 SP shall furnish, as part of its bid, a bid security for the amount specified in tender call notice. Format of EMD is enclosed in Annexure– B.

7.4.2. Performance Bank Guarantee/Performance Security

- The PBG shall be valid till the end of three months after the expiration of contract period and should be in the format prescribed in Annex. 'B'.
- In the event of the SP being unable to service the contract for whatever reason, department would evoke the PBG.
- Notwithstanding and without prejudice to any rights whatsoever of department under the contract in the matter, the proceeds of the PBG shall be payable to department as compensation for any loss resulting from the SP's failure to complete its obligations under the contract.
- Department shall also be entitled to make recoveries from the SP's bills, performance bank guarantee, or from any other amount due to him, the equivalent value of any payment made to him due to inadvertence error, collusion, misconstruction or misstatement.

7.4.3. Payment

MPPCB will make payment for the entire services rendered as stated earlier in this document.

- For release of payments, the SP shall present pre-receipted due bills in duplicate for the payments along with all necessary supporting documents.

7.4.4. Taxes and Duties

The SP shall be entirely responsible for all taxes, duties, license fees and other such levies.

7.4.5. Delay in the SP Performance

The SP has to start as per the direction of the client at the designated locations and Services shall be made in accordance with the time schedule prescribed by the Client.

If at any time during performance of the Contract, the SP should encounter conditions impeding timely delivery or installation of the Systems or performance of the Services, the SP shall promptly notify the Client in writing the cause of delay. As soon as practicable after receipt of the SP notice, the Client shall evaluate the situation and may at its discretion extend the time for performance, with or without liquidated damages, and revised implementation plan will be prepared by both parties.

7.4.6. Liquidated Damages

If the SP fails to deliver Services or install any or all of the systems or if any of the services fail to gain Acceptance within the period specified in the Contract, the Client shall, without prejudice to its other remedies under the Contract, deduct from the performance security. Once the maximum is reached, the Client may consider termination of the Contract. If delivered or installed goods and/or Services cannot be put to use without the undelivered goods/Services, the damages will be calculated using the total price of the goods/services that can not be put to use.

7.5. Termination for Default

The Client, without prejudice to any other remedy for breach of Contract, may terminate this Contract in whole or in part by giving 30 days advance notice; if the SP fails to deliver any or all of goods / services or to install any or all of the Systems within the period(s) specified in the Contract or within any extension thereof granted by the Client or if he fails to perform any other significant obligations(s) under this contract. In the event the Client terminates the Contract in whole or in part, the Client may procure, upon such terms and in such manner as it seems appropriate, goods / services similar to those undelivered, and the SP shall be liable to the Client for any excess costs for those similar goods or Services. However, the SP shall continue performance of the contract to the extent not terminated.

7.6. Force Majeure

The SP shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if its delay in performance or to perform its obligations under

the Contract is the result of an event of Force Majeure. For purposes of this Clause, "Force Majeure" means an event beyond the control of the and not involving SP's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Client in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

If a Force Majeure situation arises, the SP shall promptly notify the Client in writing of such condition and the cause thereof. Unless otherwise directed by the Client in writing, the SP shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

7.7. Resolution of Disputes

1. **Disputes & its Jurisdiction:** The contract between the bidder and the MPPCB shall be governed by the Laws of India and under this contract shall be taken by the parties only in Bhopal to competent jurisdiction.
2. **Arbitration:** Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, instructions and terms & Conditions herein before mentioned and so as to the quality of the materials, as to any question, claim, right, matter or thing whatsoever, in any way arising out of or relating to the contract. Specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution of the same whether arising during the process of work or after the completion or abandonment thereof shall be referred to the sole arbitration of a person nominated by the Member Secretary, MPPCB, and if he is unable to act to the sole arbitration, some other person appointed by him willing to act as such arbitrator. The submission shall be deemed to be submission to arbitration under the meaning of the India arbitration & Conciliation, 1996 or any satisfactory modification or reenactment thereof for the time being in force conclusive and binding on all parties of the Contract. The venue of the arbitration will be Bhopal only.

7.8. Notices

Any notice given by one party to the other pursuant to this contract shall be sent to the other party in writing or by email or facsimile and confirmed in writing to the other party's last known address. A notice shall be effective when delivered or tendered to other party whichever is earlier.

7.9. Inspections and Acceptance Test

Inspection: The Client or its representatives shall have the right to inspect the commissioning works or any other work that would carried as part of contract execution for its quality to confirm their Contract specifications at point of development/delivery and/or at the final place(s) of delivery. The SP shall arrange necessary systems, people and equipment for such inspections. Should any inspected or tested or delivered services fail to conform to the Contract specifications or to pass the Acceptance tests as defined jointly in the Project Plan, the Client may reject the services, and the SP shall

either replace the rejected delivered goods/ services or make alterations as necessary to meet the specifications free of cost to the Client.

7.10. Warranty & Maintenance

7.10.1. The SP shall ensure that the portal platform to be customized during the project tenure.

7.10.2. The warranty shall remain valid for 12 months after the successful Implementation and acceptance by the department. The support period shall begin post completion of warranty period.

7.10.3. Service Provider will depute a Resident Engg. at MPPCB for minimum 6 months during the warranty period for the purpose of system administration & maintenance, trouble shooting, bug fixing and rectification or any other problems related to the portal. Post 6 months, the support will be required "on call basis".

7.10.4. If the SP fails to remedy the defect(s) within a reasonable period, as per response and resolution time defined and in any case takes more than 7 working days for resolution, the dept. may proceed to take such remedial action as may be necessary, at the Service Provider risk and expense and without prejudice to any other rights which the dept. may have against the SP under the contract.

7.11. Service Provider's Obligations

- The SP will abide by the job safety, insurance, customs and immigration measures prevalent and laws in force India, and will indemnify the Client from all demands or responsibilities arising from accidents or loss of life. The SP will pay all indemnities arising from such incidents and will not hold the Client responsible or obliged.
- The SP must provide a team of qualified technical persons for constant interaction with MPPCB officials during the entire duration of contract including installation, customization, testing, validation, trials, live running and maintenance.
- The SP is responsible for, and obligated to work closely with MPPCB, Designated Project development team. The Intellectual Property Rights of the developed System lies with MPPCB. The MPPCB development team will associate throughout the process of development. However, the submission of the project deliverables is the responsibility of the SP.
- Maintenance Calls: The maintenance calls during warranty and AMC period should be attended as per terms and conditions in AMC agreement, for which a register shall be maintained by MPPCB and no extra cost shall be paid beyond the contract price.

8. Special Conditions of the Contract (SCC)

The following Special Conditions of Contract (SCC) shall supplement to the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions of the SCC shall prevail over those in the General Conditions of Contract.

Payments

••Contract Price & Payments:

Prices are fixed and no adjustment will be made to the contract price. The payment will be done by department on submission of invoices supported by uptime certification form the authorized officer of the client department for the uptime and performance. The payment will be made on Milestone basis until go-live and the AMC will be paid for the completed quarters.

•• **Release of Payment**

The user department will make the payment as per payment terms and conditions on submission of invoices with necessary certifications.

•• **Insurance to men, machine and material**

The SP has to ensure against all risks on his men, machine and material and provide the evidence before commencing the work to the client.

•• **Subcontract**

Subcontract is not allowed in any form. During the program, if found that SP has given subcontract, the contract will be cancelled and implementation cum performance security will be forfeited besides black listing the SP to participate in any future tender of MPPCB.

•• **Infrastructure arrangement by SP**

The SP shall make his/her own arrangements for infrastructure which includes power, water, and transportation etc of personnel deployed by him, security at the site in addition to the men, machine and material.

Time for Implementation of the project

The successful SP shall complete and implement the project as per the agreed time frame

starting from the date of award of contract. The implementation schedule will be finalized in consultation with the SP and shall be strictly adhered to.

(Annex. 'A')
(Tender No. MPPCB/Pur-ESC/03/2016-17)

(Table of Sample Forms and Procedures)

Bid Letter Form

From:
(Registered name and address of the Service Provider)

To:

**The Member Secretary
Madhya Pradesh Pollution Control Board
Paryavaran Parisar, E-5, Arera Colony,
Bhopal - 462 016, India**

Sir,
Having examined the bidding documents and amendments there on, we the undersigned, offer to provide services / execute the works in conformity with the terms and conditions of the bidding document and amendments there on, for the following project in response to your tender call

“Identification of Service Provider for Supply, Commissioning & Maintenance of the Central Server Software for Online Continuous Real-Time Data Acquisition and Handling System for Emission, Ambient Air and Effluent Quality Monitoring in Madhya Pradesh – Linking of Industries with MPPCB Server”

We undertake to provide services / execute the above project or its part assigned to us in conformity with the said bidding documents for an estimated sum of Rs.....
(Total bid amount in words and figures) which may vary in accordance with the schedule of prices attached herewith and coverage options made by the MPPCB.

If our bid is accepted, we undertake to Provide services / execute the work according to the time schedule specified in the bid document, obtain the performance guarantee of a bank in accordance with bid requirements for the due performance of the contract, and agree to abide by the bid conditions, including pre-bid meeting minutes, if any, which remain binding upon us during the entire bid validity period and bid may be accepted any time before the expiration of that period.

We understand that you are not bound to accept the lowest or any bid you may receive, nor to give any reason for the rejection of any bid and that you will not defray any expenses incurred by us in bidding.

Place:
Date:

**Service Provider's signature
and seal**

(Annex. 'B')

(Tender No. MPPCB/Pur-ESC/03/2016-17)

Sample Bid Security (EMD) form

(In Envelop 'A')

I. File. No:

II. Project Name:

(To be issued by a bank scheduled in India as having at least one branch in Bhopal)

Whereas..... (herein after called "the Service provider") has submitted its bid dated(Date) for the execution of..... (Here in after called "the Bid") KNOW ALLMEN by these presents that WE of having our registered office at..... (Here in after called the "Bank") are bound unto the (hereinafter called "MPPCB") in the sum of for which payment to be made to the MPPCB itself, its successors and assignees by these presents.

The conditions of this obligation are:

- a. If the service provider withdraws its bid during the period of bid validity or
- b. If the service provider , having been notified of the acceptance of its bid by the MPPCB during the period of bid validity:
 - 1) fails or refuse to execute the contract form if required; or
 - 2) fails or refuse to furnish the performance security, in accordance with the bid requirement;
- c. service provider submits fabricated documents

We undertake to pay the above amount upon receipt of its first written demand, without the MPPCB having to substantiate its demand, provided that in its demand they will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee of Rs. -----will remain in force up to..... and any demand in respect thereof should reach the Bank not later than the above date.

Place:
Date:

**Signature of the Bank Official
with seal**

**Sample Performance Security Form
(Tender No. MPPCB/Pur-ESC/03/2016-17)**

Ref. No.....

(To be issued by a bank scheduled in India and having at least one branch in Bhopal)

To: (Address of Member Secretary - MPPCB)

WHEREAS (Name of Service provider) hereinafter called "the Service provider" has undertaken, in pursuance of Contract No..... dated ... (Date), to supply called "the Contract".

AND WHEREAS it has been stipulated by you in the said Contract that the Service Provider shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract. WHEREAS we have agreed to give the Service provider a Guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Service provider, up to a total of Rs.(.....) and we undertake to pay you, upon your first written demand declaring the Service provider to be in default under the Contract and any sum or sums within the limit of Rs..... (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the day of (Date)

Place:
Date:

**Signature of Guarantors
and seal**

Check List
(to be submitted along with TQ bid)

The following are the particulars of compliance/deviations from the requirements of the tender specifications.

Sl. No.	Bid Document Reference	Remarks
1.	EMD	
2.	Form TQ#1	
3.	Form TQ#2	
4.	Form TQ#3	
5.	Form TQ#4	
6.	Form TQ#5	
7.	Form TQ#6	
8.	Form TQ#7	
9.	Form TQ#8	
10.	Form C#1	
11.	Form C#2	

The specifications and conditions furnished in the bidding document shall prevail over those of any other document forming a part of our bid, except only to the extent of deviations furnished in this statement.

Place:
Date:

**Service Provider's signature
and seal**

NOTE: For every item appropriate remarks should be indicated like 'no deviation', 'agreed', 'enclosed' etc. as the case may be.

APPENDIX I
(Tender No. MPPCB/Pur-ESC/03/2016-17)

Technical Qualification (TQ) Proposal Submission Forms

Name of the Service Provider:

Name of the Project:

Form TQ#1 - General Information

Service provider must have registration under companies Act, 1956 & also registered with the Service Tax authorities and must have completed 3 years of existence as on Bid calling date.

Sl. No.	Description	Supporting documents with page nos.
1.	Name of the Company / Firm	:
2.	Date of Incorporation (Registration Number & Registering Authority) VAT No., CST No., PAN No.	: Public Ltd Company / Private/ Partnership firm
3.	Legal Status of the Company in India & Nature of Business in India	:
4.	Address of the Registered Office in India	:
5.	Date of Commencement of Business	:
6.	Name, e-mail Id, phone number, fax of the Contact Person	: Phone: Fax: Email:
7.	Web-Site	:
8.	EMD details	: Amount: DD No. & Date Name of the Bank: Valid up to:
9.	Certification details as per TQ condition (valid documents to be submitted)	:
10.	Proof of purchase of bid document	: Receipt No: Date of purchase:

Note:

Service provider should submit the copy of RoC & Copy of Service Tax Registration Certificate.

Place:

Date:

**Service Provider's signature
and seal.**

Form TQ#2 - Financial Turnover

(Tender No. MPPCB/Pur-ESC/03/2016-17)

Name of the Service Provider:

Name of the Project:

(All values in Rs.)

Financial Information of Service Provider					
#	Financial Year	Turnover of the firm in		Total Profit after Tax	Net Worth of Company
		Total Turnover of the firm	IT based projects - Software Application Development and Maintenance, Real Time Data Analysis Tools		
	(1)	(2)	(3)	(4)	(5)
1	FY 2013-2014				
2	FY 2014-2015				
3	FY 2015-2016				

Note:

- 1. Turnover in areas other than mentioned above shall not be considered for evaluation.*
- 2. Please attach audited Balance Sheets and IT return statements to confirming the figures mentioned in columns (2).*
- 3. Service provider should submit any of the Audited balance sheet / Profit & Loss statement /certificates from the Company duly audited by the Chartered Accountant and certified by the Company Secretary for all the above stated three financial years.*

Place:

Date:

**Service Provider's signature
and seal**

**Form TQ#3 - Project Experience
(Tender No. MPPCB/Pur-ESC/03/2016-17)**

Name of the Service Provider:

Name of the Project:

Description of Item	Supporting Document with page number
Name of the Client / Department	
Contact address & details of the department	
Value of the Project	
Date of Start of Work	
Date of Completion of Work	
Description of Work	
Service provider should submit any of the following: i. PO / Work order ii. Work completion certificates / Performance Certificate from client dept. on their letter head duly signed by the authorized signatory from the Client end. iii. Work satisfactory certificate from the client dept.	
Enclosures submitted: Yes / No	

Note:

1. Please submit supporting documents to support the claim and the certificates must be signed by Senior Executive/ Deputy GM of the organization clearly indicating his/her name, designation and contact details such as Telephone Number, Fax number, email-id etc.

2. Please attach certificate from the client for the successful completion & implementation of project.

Place:

Date:

**Service provider's signature
with seal**

(Tender No. MPPCB/Pur-ESC/03/2016-17)
Form TQ#4 – Manpower

Name of the Service Provider :

Name of the Project:

The Service provider should have employed at least 40 IT Professionals as on bid calling date. For this purpose, the term 'IT professional' means a person with a graduate degree or a higher qualification in Electronics / Computer / IT from a recognized university.

#	Employee Name	Designation	Skills & Professional Certification, if any	Area of expertise	Previous Exp.	Experience with Service provider

Note: *The service provider should submit Self-Certification by the authorized signatory.*

Place:

Date:

**Service provider's Signature
with Seal**

(Tender No. MPPCB/Pur-ESC/03/2016-17)
Form TQ#5 - Declaration Regarding Clean Track Record

Name of the Service Provider:

Name of the Project:

To:

The Member Secretary

Madhya Pradesh Pollution Control Board

ParyavaranParisar, E-5, Arera Colony,

Bhopal (M.P.) - 462 016, India

Sir,

I have carefully gone through the Terms & Conditions contained in the RFP Document [No._____]. I hereby declare that my company has not been debarred / black listed as on Bid calling date by any Central or State Government / Quasi Government Departments or Organizations in India for non-satisfactory past performance, corrupt, fraudulent or any other unethical business practices. I further certify that I am competent officer in my company to make this declaration.

Yours faithfully,

(Signature of the Service provider)

Printed Name

Designation

Seal

Date:

Business Address:

(Tender No. MPPCB/Pur-ESC/03/2016-17)
Form TQ#6 - Local Presence

Name of the Service provider :
Name of the Project:

The service provider should have a local office as on date of bidding.

If the service provider is not having Local presence, it has to open a local office within 15 days from issue of LoI and same must be communicated to the MPPCB for future correspondence.

Note: *An undertaking in this regard should be submitted on the company letter head.
Service provider should submit self-certified office address.*

Place:
Date:

**Service Provider's Signature
with Seal**

(Tender No. MPPCB/Pur-ESC/03/2016-17)
Form TQ#7
Understanding of the Project & Implementation Methodology

Name of the Service Provider:

Name of the Project:

A Brief technical proposal by the bidder on Project Scope, understanding of the project, technologies proposed covering the following and other issues related to project:

- i. Technology model.
- ii. Project Plan
- iii. Development model
- iv. Project execution plan
- v. Training Plan
- vi. Manpower deployment plan.
- vii. Implementation Methodology Plan.
- viii. Security Methodology and Plan.
- ix. Issues and Risks in the implementation of the Project.
- x. Others, if any.

Note: *Service providers should enclose the relevant supporting documents with page numbers.*

All pages must be duly signed and stamped.

(Tender No. MPPCB/Pur-ESC/03/2016-17)

Form TQ# 8

Hardware Required & Specifications

Name of the Service Provider:

Name of the Project:

- i. Hardware, System software, network bandwidth and other tools required to implement the proposed solution
- ii. Technical Specifications for all hardware items

Place:

Date:

**Service Provider's Signature
with Seal**

(Tender No. MPPCB/Pur-ESC/03/2016-17)

APPENDIX II

Commercial Proposal Submission Forms

(Tender No. MPPCB/Pur-ESC/03/2016-17)

Form C#1 - Commercial Proposal Submission Form

[Location, Date]

To:

Dear Sirs:

We, the undersigned, offer to provide the **commercial proposal** for [Insert title of Assignment] in accordance with your Request for Proposal dated [Insert Date], and the Technical Proposal.

Our attached Financial Proposal is for the sum of [***Insert amount(s) in words and figures***].

This amount is inclusive of the Domestic taxes such as ----- (***Indicate the amounts against each***).

We hereby confirm that the financial proposal is unconditional and we acknowledge that any condition attached to financial proposal shall result in rejection of our financial proposal.

Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal.

We understand you are not bound to accept any Proposal you receive.

Yours sincerely,

Place:

Date:

**Service Provider's Signature
with Seal**

(Tender No. MPPCB/Pur-ESC/03/2016-17)
Form – C#2
Commercial Proposal

Name of the Service Provider:

Name of the Project:

Sl. No.	Content Items	Cost (in Rs.)	Taxes (in Rs)	Total Cost including all taxes
1.	Cost of Central Server Software (Data Acquisition and Handling Software)			
2.	Any Other Cost <i>(to be specified)</i>			

Total Price in words _____

Note: The above price quote should include '3' year annual maintenance cost post Go-Live declaration and also includes customization as per the User Department requirement, training, defect fixing and any upgradations.

Place:

Date:

**Service Provider's Signature
and seal**

Tender No. MPPCB/Pur.-IT/04/2016-17

TENDER DOCUMENT

FOR

**Replacement of Existing Network System
with New System including Operation,
Connectivity & Testing at MPPCB, Bhopal**



Year: 2016 - 17

**M. P. Pollution Control Board
E-5 Sector, Paryawaran Parisar,
Arera Colony, Bhopal – 462016**

**PBX : +91(0755) 2466191
FAX : +91(0755) 2463742
Web : www.mppcb.nic.in
E. mail : it_mppcb@rediffmail.com
: pur_mppcb15@rediffmail.com**



M. P. POLLUTION CONTROL BOARD

PARYAWARAN PARISAR, E-5, ARERA COLONY, BHOPAL – 16

Phone: [0755] 2466191 Fax: [0755] 2463742 E-mail: it_mppcb@rediffmail.com

Tender No. / MPPCB/PUR.-IT/04/2016-17

Replacement of Existing Network System with New System including Operation, Connectivity & Testing at MPPCB, Bhopal

Sub: Tenders for Replacement of existing network system with new system including operation, connectivity & testing work.

Sealed Tenders are invited from reputed / registered Contractor for Replacement of existing Networking System at MPPCB, Bhopal. The sealed tenders shall be received till 23.02.2017 up to 1:00 p.m. and shall be opened on dated 23.02.2017 at 03:00 p.m.

1. Sealed item rate tenders for the above subject work are invited from eligible contractors. The tenders are to be submitted in two separate envelopes each sealed and clearly identified as to envelop number and contents as indicated below. Both the envelopes shall be contained in a large envelope super scribed 'Tenders for Replacement of existing network system with new system, operation, connectivity & Testing work of Networking System at MPPCB, Bhopal.
2. The tenderer will be issued one set of tender documents comprising of Technical Bid and Price Bid for preparation of their tender.
3. Tenderers have to return all the documents issued to them while submitting their tender, duly stamped and signed as per instructions.
4. **PROCEDURE FOR SUBMISSION OF TENDERS :**

Each bidders shall submit his offer in two sealed envelopes A, B and C. Envelop "A" shall contain earnest money and tender cost, towards downloading the tender document from the web site. The Envelop "B" should contain technical specification along with required documents, terms & conditions, company profile, copy of sales /service tax registration number, PAN number and authorization certificate from manufacturer for submission of offer for this tender, if offer is submitted by authorized representative. Envelop "C" shall contain financial offer.

4 [a] Envelop – "A" (EMD & Tender Cost) : Envelop "A" should contain demand draft for the requisite amount of earnest money (Rs. 14000.00) in favor of Member Secretary, M. P. Pollution Control Board, Bhopal. Envelop "A" shall also contain demand draft for the requisite amount of tender cost (Rs. 1500.00) in favor of Member Secretary, M. P. Pollution Control Board, Bhopal. Envelop "A" shall be opened on 23.02.2017 at 3.00 pm in the presence of the bidders or their

authorized representatives. Insufficient amount furnished as earnest money and tender cost shall make the offer liable for rejection.

4 [b] Envelop – “B” (Technical Bid): Bidders, who have furnished the desired amount of earnest money and tender cost shall be liable for opening of the Envelop “B” of their offer. Envelope-“B” shall contain tender documents each page duly signed by Tenderers as a token of their acceptance of the technical and contractual details, including tender form duly filled in, complete details and description, including all data to be supplied by tenderer as specified in the information and instructions to tenderers. The Envelop “A” shall necessarily contain forwarding letter of the contractor mentioning following documents in support of their eligibility:

- (a) Documents indicating the set up of organization, partnership, Proprietorship, Pvt. Ltd, Public Ltd. etc.
- (b) Valid Networking certificates like CCNA, CCNP, CCIE, JNCIE-ENT etc.
- (c) Details of works of similar nature carried out in Central or State Government bodies/departments, Public Sector Undertakings if any.
- (d) Copy of valid TIN Number if any.
- (e) Copy of registration with PAN/Sales/Service Tax Department
- (f) Copy of Registration with Employees Provident Fund Organization. If any.
- (g) An undertaking regarding whether they are not black listed in any Govt. organization / institutions.

4 [c] Envelop – “C” (Price 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 suitability of service with respect to application, performance, documents furnished by the bidder, after sale service and service centers in Madhya Pradesh or in India etc., the financial offer shall be opened. Envelope “B” shall contain only the copy of schedule of work and prices duly filled in and signed by the tenderer along with the Annexure-1 in prescribed letter. No commercial or technical condition or qualification of any sort shall be indicated by the tenderer in this Envelope, otherwise the tender shall be summarily rejected. This envelope shall be superscribed ‘ENVELOPE “B” (PRICE BID) as tender for Up-gradation work of Networking System of MPPCB, Bhopal. The bidder shall submit necessary information such as Bank Name, Account Name, Account Number, Account Type, Branch IFSC Code for the safer & easier payment transaction through RTGS /NEFT. Notwithstanding anything stated above the competent authority of the Board reserves the right to assess the capability and capacity of the bidder to perform the contract, should the circumstances warrant such an assessment in the overall interest of the Board. The bidder shall submit copies of at least two recent supply orders of the similar nature indicating detailed price schedule along with “Envelop “C” (price bid) in order to examine reasonability of the quoted rates in the present bid

5. Envelope "A" will be opened on the due date & time i.e. 23.02.2017, 3.00 p.m. in the presence of such tenderers or their duly authorized representatives as may like to be present at 3:00 p.m. at the address indicated above.
6. The date and time of opening of Envelop "B" (Price Bid) in case of tenderers found eligible shall be intimated separately.
7. The Board reserves the right to accept or reject any or all the tenders without assigning any reasons.
8. Earnest money for an amount of Rs. 14000.00 (Rs. Fourteen Thousand only) shall be furnished by a demand draft in favor of Member Secretary, M. P. Pollution Control Board, Bhopal in envelop "A". Offers without earnest money shall not be considered and the relevant envelopes [B & C] will not be opened and their offer shall be treated as rejected.
9. Bidders using downloaded tender forms must submit tender fee by demand draft along with Earnest Money in Envelop "A" drawn of Member Secretary, M. P. Pollution Control Board, Bhopal. The tender will not be accepted without tender cost.
10. The tenders shall remain open for acceptance for a period of 360 days from the date of opening of the Envelop "A".
11. Rate(s) quoted shall include provision of all Tools, accessories, etc. required for proper execution of the work. Rate(s) shall also cover the cost of handling, carriage, taxes, duties and royalties, etc.
12. **Payment Condition:** Depending on the progress of the work and written request of the contractor. The contractor will submit the bill of the work done, these will be verified by the In-charge, IT Cell through the quality and volume of the work executed and recorded in the measurement book/Measurement sheet. Bill of the work executed shall be jointly signed by the Engineer and the Contractor. 100% payment will be made on completion of all the work and fulfillment of contractual liabilities.
13. The Competent Authority, M. P. Pollution Control Board reserves the right without assigning any reasons therefore to:
 - Accept or reject any or all tenders in whole or in part;
 - b) Increase or decrease the quantities of any item of the work and the successful tenderers shall perform the same at the rates quoted.
14. Time of completion of work will be Three (3) months from the date of commencement as per letter of intent, which can be relaxed for additional 30

days by the Member Secretary. After scheduled time limit, 2% of the total contract value per month penalty shall be levied the amount of penalty shall not be more than 10% of the contract value.

15. Any further clarifications may please be obtained from the undersigned. Intending tenderers are encouraged to visit the site of work and acquaint themselves with the scope of work.
16. Price quoted by the tenderers shall be firm, inclusive of all levies, excise duty and VAT, any other tax etc. No escalation in price would be permitted on any ground.
17. TDS and any other taxes as applicable from time to time shall be recovered by the Board from the bills submitted by the contractor. Any change in the rate of TDS shall be to the contractor's account.
18. The quantity of work may be variable the tenderers are requested to make him familiar with the site and work to be executed.
19. Material specifications are mentioned against items of the tender. However where no specification is given one of the following make of the material shall be used. The contractor will have to get the sample approved from the Engineer In charge whose decision shall be binding on the contractor. The condition is also applicable for any material not mentioned in the specification or schedule of works no deviations are allowed in these even during / after tender.

SN.	MATERIAL APPROVED BRANDS	MATERIAL APPROVED BRANDS
1.	CAT-6 CABLE	D-link, AMP
2.	SWITCH (24 & 16 PORT)	CISCO, D-Link, Digisol
3.	WI-FI MODEM	CISCO, D-Link, Digisol
4.	PATCH PANEL	CISCO, D-Link, Digisol
5.	CABLE CASING	CISCO, D-Link, Digisol

NOTE: CONTRACTOR SHOULD OBTAIN APPROVAL FROM ENGINEER INCHARGE OF THE BOARD BEFORE PLACING ORDER FOR ANY SPECIFIC MATERIAL/AGENCIES.

**Annexure-1
Tender No. / MPPCB/PUR.-IT/04/2016-17**

Envelope "B" (Price Bid)

Name of work: – Replacement of Existing Network System with New System including Operation, Connectivity & Testing at MPPCB, Bhopal

S.No	Description of Items		Qty.	Unit	Rates Quoted by the Firm (Rs.)
1.	Rack	17U 600x650mm/Front Glass & Back metal Door /1x4-Wheels Set/1x2-FAN Tray/ 1x6-Port 5-15Amp PDU with MCB/1xStationary Shelf	1	Nos.	
		9U (Size 23"x 23.75" x 20.50")	1	Nos.	
		6U (Size 19.1"x 8.75"x 26.4")	4	Nos.	
2.	D-link 24-Port CAT6 Patch Panel, Loaded 1U Rack Mount		8	Nos.	
3.	OEM Make 1U Plastic Loop Cable Manager		8	Nos.	
4.	Switch	D-link 24-Port 10/100/1000 Mbps Unmanaged GigaByte	7	Nos.	
		D-link 16-Port 10/100/1000 Mbps Unmanaged GigaByte	1	Nos.	
5.	Wi-fi Modem (802.11ac Technology)		10	Nos.	
6.	Cat-6 Cable (D-link CAT6 UTP)		5100	Mtr.	
7.	Casing Capping Fitting and laying Charges With casing Capping per Mtr. of Length		3500	Mtr.	
8.	D-link Dual Port Information Outlet with Gang-Box		200	Nos.	
9.	RJ 45 Connector Crimping		400	Nos.	
10.	I/O Connector Impacting		200	Nos.	
11.	Patch Panel Jack Impacting (D-link)		200	Nos.	

Having examined the form of contract, schedule of quantities, relating to the above mentioned work and having visited and examined the site of the proposed works and having acquired the requisite information relating thereto as affecting the tender invited by you on behalf of the M. P. Pollution Control Board, I/we, the undersigned hereby offer to execute and complete the proposed works strictly in accordance with the Award of contract for the sum/amount of Rs_____ (Rupees_____) including all taxes, duties, installation, transportation etc. as per applicable or such other sum as may be ascertained in accordance with said conditions as given in the tender document.

I/we undertake to complete and deliver the whole of the works within Three months from the date of commencement of work as per the relevant clause of the contract. Upon receiving possession of the site, I/we shall be under obligation to pay the sum as per General Conditions of the contract. I/we have deposited earnest money of Rs 14,000.00 (Rs Fourteen Thousand only) by Bank Draft/Pay Order which will carry no interest. I/we hereby agree that this sum shall be forfeited by the M. P. Pollution Control Board in the event of my/our tender being accepted and I/we fail to execute the contract when called upon to do so.

Yours faithfully,

Name & Seal of the Partner of the firm

CHECK LIST
(Tender No. MPPCB/Pur./02/2016-17
Laboratory Equipments & other article)

ENVELOP "A"	Earnest Money of requisite amount and tender cost in case of tender document is downloaded from web site.
ENVELOP "B"	<ul style="list-style-type: none"> • Technical compliance details in Annexure "1" • Company Profile. • Leaf let / brochure of the applied item. • Copy of sales tax registration number. • Copy of PAN No. • Undertaking regarding not being blacklisted. • User's List & Performance reports etc. • Manufacturer's authorization certificate, in case the offer is not submitted by Manufacturer. • Commercial Terms & conditions
ENVELOP "C"	<ul style="list-style-type: none"> • Price schedule in annexure "3", "4" or "5" whichever is applicable. • Price schedule for AMC in annexure "2" • Copies of at least two recent supply orders of the similar nature indicating detailed price schedule in order to examine reasonability of the quoted rates in the present bid

CHECK LIST

TENDER NOTICE NO. MPPCB/Pur.-ESC/03/2016-17

Name of Work: Identification of Service Provider For Supply, Commissioning & Maintenance of the Central Server Software for Online Real Time Data Acquisition and Handling System for Emission, Ambient Air and Effluent Quality Monitoring in Madhya Pradesh – Linking of Industries with MPPCB Server.

ENVELOP "A"	<ul style="list-style-type: none">• Demand Draft of Cost of Tender Document towards downloading from web site.• Demand Draft of Earnest Money (EMD)
ENVELOP "B"	<ul style="list-style-type: none">• Relevant filled in format such as TQ#1, TQ#2, TQ#3, TQ#4, TQ#5, TQ#6, TQ#7, TQ#8• Power of Attorney• Evidences for doing similar nature of work,• Experience in the similar field,• Detailed list of infrastructure / available,• Copy of sales tax registration and Income Tax registration [PAN],• copy of undertaking regarding not being blacklisted,• Terms & conditions,• Company profile etc.• Additional documents as listed in RFP or otherwise.
ENVELOP "C"	<ul style="list-style-type: none">• Price schedule in annexure C#1, C#2• Copies of at least two recent supply orders of the similar nature indicating detailed price schedule in order to examine reasonability of the quoted rates in the present bid.

CHECK LIST

TENDER NOTICE NO. MPPCB/Pur.-IT/04/2016-17

Name of Work: Replacement of Existing Network System with New System including Operation, Connectivity & Testing at MPPCB, Bhopal

ENVELOP "A"	<ul style="list-style-type: none">• Demand Draft of Tender Cost and Earnest Money Deposit (EMD)
ENVELOP "B"	<ul style="list-style-type: none">• Documents indicating the set up of organization, partnership, Proprietorship, Pvt. Ltd, Public Ltd. etc.• Valid Networking certificates like CCNA, CCNP, CCIE, JNCIE-ENT etc.• Details of works of similar nature carried out in Central or State Government bodies/departments, Public Sector Undertakings if any.• Copy of valid TIN Number if any.• Copy of registration with PAN/Sales/Service Tax Department• Copy of Registration with Employees Provident Fund Organization. If any.• An undertaking regarding whether they are not black listed in any Govt. organization / institutions.
ENVELOP "C"	<ul style="list-style-type: none">• Schedule of Financial bid is provided as per annexure (annexure-1)• Copies of at least two recent supply orders of the similar nature indicating detailed price schedule in order to examine reasonability of the quoted rates in the present bid