

# POLLUTION CONTROL COMMITTEE

Dadra and Nagar Haveli & Daman and Diu

1<sup>st</sup> Floor, Udyog Bhawan, Bhenslore, Nani Daman-396210

No. PCC/DMN/Project-(Part-III)/2017-2018/ 60

Dated: 13/05/2023

**EXPRESSION OF INTEREST (RE-INVITED) TO CARRY OUT**  
**THE AMBIENT AIR QUALITY MONITORING PROGRAMME**  
**IN THE**  
**UT OF DADRA AND NAGAR HAVELI & DAMAN AND DIU**

**Expression of Interest (EoI)** are hereby invited from Expert Agencies / Laboratories eligible for a project on “Sampling, Analysis and Reporting for Ambient Air Quality under the National Ambient Air Quality Monitoring Programme in the UT of Dadra & Nagar Haveli and Daman & Diu” to be implemented by the Pollution Control Committee, DNH & DD under the aegis of the Central Pollution Control Board, Delhi. The EoI complete in all respect should be sent through **Speed Post / Registered Post / by Hand** so as to reach this office on or before **04:30 p.m. on 02/06/2023**. The details of the project are presented as under:-

1. Scope of the work:

The scope of work shall include, but are not limited to - Sampling, Analysis and Reporting for the Ambient Air Quality Parameters in UT of DNH & DD at the Stations identified by the Pollution Control Committee, DNH & DD for the period of 01 (One) Year.

2. Essential Qualification(s) of the Bidder:

- a) The Bidder should have been recognized from the MoEF & CC / CPCB under the Environment (Protection) Act, 1986.
- b) The Bidder should have at least 03 (three) years of experience in the field of ambient air quality monitoring in last 07 (seven) years executed with any Government stakeholders.
- c) The Bidder should have minimum average annual turnover of Rs. 15 Lakhs during last 3 financial years (2019-20, 2020-21 and 2021-22) which should be supplemented by financial statements for such financial years issued by a statutory Auditor / Chartered Accountant.

- d) Authorized Signatory for signing the analysis report shall have minimum qualification of M.Sc. Chemistry / M.Sc. Environment / M. Tech. Environment. Apart from this, the Bidder shall ensure compliance of the manpower requirement as laid down in the “General Guidelines for Recognition of Environmental Laboratories under the Environment (Protection) Act, 1986” which has also been mentioned as below:

Sl. No.	Qualification	Nature of Job	Numbers
1.	High School / Intermediate with Science	Assistance in Sampling & Analysis	2
2.	Bachelors Degree in Basic Science or equivalent	Sampling & Analysis	4
3.	Masters Degree in Science or Equivalent or Bachelors Degree in Engineering / Technology or equivalent or Ph.D.	Sampling & Analysis. Supervision of Analysis	3
<b>Total Manpower (Minimum)</b>			<b>9</b>

# Compliances with respect to the manpower requirement should be strictly adhered to during the entire duration of the project.

- e) The Bidder should have a valid Licenses / Registrations as applicable under law and as required for providing services mentioned in this tender.
- f) The Bidder should ensure of not having been Black-listed by any Central / State Government agency and must submit a Self-Declaration on the same (in the format as annexed herewith).
- g) The Bidder besides having well-qualified and experienced personnel should also have proper machinery / equipment for measurement of the ambient air quality parameters. All these should be in compliance to what has been laid down in the “General Guidelines for Recognition of Environmental Laboratories under the Environment (Protection) Act, 1986 ”.



1. Terms & Conditions:

- a) EoI is hereby invited only from MoEF & CC recognized agencies / laboratories having experience in Sampling, Analysis & Reporting for Ambient Air Quality parameters as identified, under the National Air Monitoring Programme.
- b) The Expression of Interest shall be submitted in two parts i.e.. Technical bid and Financial bid. The bids shall be enclosed in two separate sealed envelopes mentioning on top-middle of the covers as "Technical Bid" and "Financial Bid" respectively. Both these covers shall further be enclosed in a single envelop superscribing on the top-middle with the phrase "EoI for Participation in the Bid for National Ambient Air Quality Monitoring Programme in the UT of DNH & DD".
- c) Financial bid shall be considered and opened only upon successfully qualifying the corresponding Technical bid. The rates offered by the laboratory / agency shall be valid for a period of one year from the date of issuing the Work Order.
- d) The rates quoted by the bidder shall be in accordance with the guidelines notified by CPCB vide notification no. Legal/42(3)/87 dated 23/02/2022 from time to time, wherever applicable. No changes in rates, except changes in statutory duties, shall be accepted after awarding the work order.
- e) The interested Agency is required to submit the necessary documents related to profile of the agency, work experience, valid certification under Environment (Protection) Act, 1986 from MoEF & CC and NABL Accreditation.
- f) The Executing laboratory/agency shall also provide the sampling schedule to the PCC seeking their participation in the sampling works.
- g) The Executing laboratory / agency shall inform beforehand (via email) to the PCC, DNH & DD details of the team visiting the identified locations for carrying out the sampling works at least **5 days** prior to the schedule.
- h) During the course of implementation of the project, the executing agency shall conduct the sampling and analysis strictly as per methodologies / techniques as prescribed in the Standard Methods issued by APHA / EPA / BIS / CPCB manuals (as the case may be).
- i) The ambient air quality monitoring report containing the parameters as specified by PCC, DNH & DD shall be submitted to this office within the first week of the following month.
- j) The successful bidder shall not assign or sublet the work or any part thereof it to any other person or party. Only one bid shall be submitted by the bidder.

- k) The agency must bid for whole quantity. Partial bidding will not be accepted and will not be considered for further process.
- l) Expression of Interest with incomplete details / false details / with omissions & errors etc. shall be rejected. Conditional bid will be rejected.
- m) If it is found that the Expression of Interest is not submitted in proper manner or contains too many corrections or absurd rates or amounts, it would be summarily rejected by PCC, DNH & DD without giving any reasons thereof..
- n) Pollution Control Committee, DNH & DD reserves the right to amend the Bidding Document by issuing addendum at any time prior to the deadline for submission of sealed bids, the Pollution Control Committee, DNH & DD. Any addendum issued shall be part of the Bidding Document.
- o) Sites selected for identifying the monitoring stations is at the discretion of the Pollution Control Committee, DNH & DD unless otherwise specified.
- p) The Member Secretary Pollution Control Committee DNH & DD reserves the right to accept or reject any / all the bids or part thereof, without assigning any reason whatsoever.

## 2. Specific Conditions:

- a) Ambient Air Quality Monitoring for following parameters:

Parameters	Frequency
SO <sub>2</sub> , NO <sub>2</sub> , PM 10, PM 2.5, Pb & NH <sub>3</sub>	for 24 hourly average monitoring values
O <sub>3</sub> , CO	for 1 hourly average and 8 hourly average
Benzene, Benzo(a) Pyrene, Arsenic & Nickel	for 24 hourly average value

#Note: The frequency of sampling is subject to change as per the discretion of PCC, DNH & DD.

- b) The Executing laboratory/agency shall carry out the sampling and analysis works as per the procedure and norms stipulated in "Standard Methods".
- c) In case of any disputes related with this tender process and tender work, the decisions of the Competent Authority of Pollution Control Committee, DNH & DD shall be final and binding to the agency.
- d) Pollution Control Committee, DNH & DD reserves the right to increase or decrease the number of monitoring and sampling stations, Schedule of Requirements, and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.



- e) Pollution Control Committee, DNH & DD reserves the right to allot the additional work of sampling & analysis of ambient air quality parameters (**such as Special Monitoring during Diwali Festival, etc**), as per PCC's requirement and for suggested parameters without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.
- f) This analysis database is the property of the PCC, DNH & DD, hence the successful Bidder is not allowed to submit or share the data with any other stakeholder / 3<sup>rd</sup> party and shall take all necessary steps to maintain confidentiality of the data, failing which PCC may take legal action as deemed fit by the competent authority which might also include termination of the work order without giving any reasons thereof.
- g) The agency has no right to change the results after the reports have been generated and shall submit the actual reports.
- h) No infrastructure like instrument, chemicals or others requisite like vehicle, electricity etc will be provided by the PCC, DNH & DD.
- i) Only the Bidder will be responsible for the payment and other benefits of the employee engaged in this sampling & analysis work.

### 3. Technical Conditions:-

- a) Bidder shall have to submit Meteorological Data (Humidity, Temperature, Wind speed, Wind Direction, Rain fall etc.) of the stations where the sampling & analysis is carried out.
- b) Sample collection and measurement will be carried out at least twice a week for 24 hours at uniform interval. A minimum of 104 collections and measurements are to be carried out in a year for each station / or as per the NAAQM Analysis Guidelines, May 2011 published by CPCB and its amendments thereof.
- c) Locations of the selected monitoring stations may be changed as per the discretion of PCC, DNH & DD as and when required.
- d) Monitoring stations will be operated as per the Directions issued by the PCC and the station will be used only for collection of the samples during the stipulated time.
- e) Sampling shall be carried out under the supervision of an expert empanelled by the agency as duly intimated to this office before such visits are being carried out.
- f) Pollution Control Committee, DNH & DD reserves the right to inspect any station at any given time of the day.

- g) During such inspection if the work is found to be unsatisfactory and not in compliance to terms and conditions stipulated herein, PCC has right to disengage the agency / laboratory including cancellation of the work contract without assigning any reasons thereof.
  - h) It is compulsory to collect the samples at least twice a week for 24 hours. In case of failure in sample collection and analysis, PCC will charge a penalty twice the bill amount for a particular sample.
  - i) The analysis results and bills are to be certified by the agency and submitted to O/o PCC before the 5th day after completion of every month for payment in triplicates. (Results must be in soft as well as hard forms) as per prescribed format. Payments shall only be released upon satisfactory verification of the reports obtained and upon necessary completion of the administrative procedures.
  - j) Successful bidder shall have to submit the monitoring schedule to PCC, DNH & DD in advance at least one week prior to actual monitoring date.
  - k) Successful bidder shall have to submit the calculated value of AQI as per CPCB guidelines.
  - l) The agency shall also be required to prepare and submit graphical representation of the data obtained during the monitoring, as and when required by the PCC, DNH & DD.
4. Validity of the Contract:-
- a) Successful Bidder would be awarded the project / work of Sampling and analysis of ambient air quality in DNH & DD for 1 (one) year if necessary it may be extended for further period as per the requirement of PCCC DNH & DD.
  - b) Alternatively, if at any time the successful Bidder do not wishes to continue with the contract / extend the contract beyond the contract period, the same shall be intimated to this office prior to 3 months of ending such service.
5. Termination of Contract:
- a) In the event of breach of any of the terms & conditions of the granted Work Order on the part of the agency the contract may be terminated summarily by PCC without compensation / payment of any pending dues to the agency.
  - b) If any of the terms & conditions of the granted Work Order does not seem to be complying as per the requirements, PCC DNH & DD may terminate the contract by giving opportunity of being heard.



Details of the Project:-

PROJECT CODE

Sr. No.	Project Name	Item Code
1.	National Ambient Air Quality Monitoring Programme	NAMP

Details regarding National Ambient Air Quality Monitoring Programme (NAMP)

Sr. No.	Projects Name	National Ambient Air Quality Monitoring
1.	Work details	Ambient Air Quality Monitoring in DNH & Daman
2.	Monitoring stations in DNH & Daman	As per Annexure- I
3.	Time period of Monitoring Station	Twice a week for 24 hours at uniform interval. Minimum 104 samples collections and measurements in a year for each station / or as per the NAAQM and Analysis Guidelines, May, 2011 published by CPCB
4.	Analysis parameter & Methodology	As per annexure- II

**Annexure I:** List of monitoring stations/locations under NAMP


Sr. No.	District	Location Name/Area
1.	Daman	Mashal Chowk, Nani Daman
2.	Daman	Village Kadaiya, Nani Daman
3.	Daman	Makat Faliya/Ambavadi, Moti Daman
4.	DNH	Piperia, Silvassa
5.	DNH	Baldevi, Dandul Faliya, Silvassa
6.	DNH	Village Khadoli, Silvassa

**Annexure- II: Parameters list & Methodology for NAMP**

Sr. No.	Parameters	Methodology	Reference
1.	PM10	Gravimetric Method	NAAQM and Analysis Guidelines, May, 2011 Published by CPCB & subsequent amendment if any (IS Standards)
2.	PM 2.5		
3.	SO <sub>2</sub>	Improved West and Gaeke method	
4.	NO <sub>x</sub>	Jacob and Hochheiser Method	
5.	O <sub>3</sub>	Chemical Method	
6.	NH <sub>3</sub>	Indophenol Blue Method	
7.	CO	NDIR	
8.	LEAD	Atomic Absorption Spectrophotometer Method	
9.	ARSENIC		
10.	NICKEL		
11.	BENZENE	GC-FID	
12.	BENZO-APYRENE		

Note :-

1. Specifications offered other than bid-document will be rejected.
2. Filter paper and Chemicals must be of a reputed brand.
3. Filter paper is required to change as per the NAAQM Monitoring and Analysis Guidelines, May, 2011 Published by CPCB and its amendments thereof.
4. The rate shall be inclusive of all applicable taxes.

  
**Member Secretary**  
Pollution Control Committee,  
DNH & DD,  
Daman

**Copy to:-**

1. National Informatics Officer, NIC, Daman for uploading on the website of the UT Administration.
2. National Informatics Officer, NIC, Delhi for uploading the same on OCMMS portal.



**SELF-DECLARATION – NO BLACKLISTING**

(Date)

To,

The Member Secretary  
Pollution Control Committee,  
DNH & DD,  
Daman

Sub: Sampling and Monitoring of Ambient Air Quality for PCC, DNH & DD.

Respected Sir/Madam,

1. In response to the Tender Document for the Sampling and Monitoring of Ambient Air Quality Monitoring for PCC, DNH & DD, I/ We hereby declare that presently our Company/ firm \_\_\_\_\_ is having unblemished record and is not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State/ Central Government/ PSU/Autonomous Body.
2. We further declare that presently our Company / firm \_\_\_\_\_ is not blacklisted and not declared ineligible for reasons other than corrupt & fraudulent practices by any State / Central Government / PSU / Autonomous Body on the date of Bid Submission.
3. This Declaration if found to be incorrect during the course of engagement of my organization / agency with the Pollution Control Committee, DNH & DD, action as deemed fit may be initiated without prejudice to any legal right or claim.

## Annexure

### FORMAT FOR FINANCIAL BID

Sr. No.	Parameters	Rate (excluding GST) per sample	Amount of GST	No. of Samples in a year	Total
1.	PM 10			624	
2.	PM 2.5			624	
3.	SO <sub>2</sub>			624	
4.	NO <sub>x</sub>			624	
5.	O <sub>3</sub>			624	
6.	NH <sub>3</sub>			624	
7.	CO			624	
8.	LEAD			624	
9.	ARSENIC			624	
10.	NICKEL			624	
11.	BENZENE			624	
12.	BENZO-APYRENE			624	
13.	Meteorological Data (Humidity, Temperature, Wind speed, Wind Direction, Rain fall etc.			624	

Security may be forfeited in full and the tender if any to the extent accepted may be cancelled.

Thanking you,

Yours faithfully,

Date:

Place:

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Seal of the Organization \_\_\_\_\_