



DEENDAYAL PORT AUTHORITY

Administrative Office Building
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EG/WK/4751/CAAQM/ 1007

Date: 21/11/2022

To,

Expression of Interest

Sub: ONLINE CONTINUOUS AMBIENT AIR QUALITY MONITORING (CAAQM) FOR THE PERIOD OF THREE YEARS AT DEENDAYAL PORT AUTHORITY

Sir/Ma'm,

Deendayal Port Authority intends to carry out Online Continuous Ambient Air Quality Monitoring for the period of 3 years.

Kindly submit your Expression of interest along with budgetary-offer (Lump sum charges) for the subject work on the basis of broad Terms of Reference of work enclosed herewith.

The rates quoted must be inclusive of all taxes, duties for performing scope of work & exclusive of GST. The GST applicable shall be shown separately, which shall not be considered for evaluation purposes.

Your Expression of interest along with budgetary offer for the above work should reach to the following address on or before **21/11/2022**.

Address:

Office of Superintending Engineer (PL)
Pipeline Division, Ground Floor,
A.O. Building, Annexe
Deendayal Port Trust,
Gandhidham (Kutch)-370201.).
Email ID: kptemc@gmail.com
Mo No-9892194259
Thanking you,

Yours faithfully,

Superintending Engineer (Pipeline)
Deendayal Port Authority

Enclosed: - As above

Equipment required for carry out Online Continuous Air Monitoring as per GPCB/CPCB norms & Scope of Work (Tentative)

1. MINIMUM REQUIREMENT (Two online monitoring System to be installed)

(Below details for requirement for one system only)

Brief Description	Qty in no.
CAAQM Station – Housing/Container	
Housing/Container for Continuous Ambient Air Quality Monitoring (CAAQM) Station including sampling system, internal fittings, instrument racks, electrical and gas line fitting, tools (electrical and mechanical) etc.	1 Unit
SPLIT AIR CONDITIONER (AC)	
Split Air Conditioner (2 Ton Capacity)	2 Unit
Split Air Conditioner (1 Ton Capacity)	1 Unit
ONLINE UNINTERRUPTED POWER SUPPLY (UPS)	
Online UPS 10 KVA, capacity (Three Phase I/P and Single Phase O/P, with 01 hrs backup) (for Air Conditioner)	1 Unit
Online UPS 10 KVA, capacity (Three Phase I/P and Single Phase O/P, with 01 hrs backup) (for Air Conditioner)	1 Unit
Online UPS 5 kVA, capacity (Single Phase I/P & Single phase O/P, with 02 hrs backup) (01 for Analysers & 01 for Server at Central Station)	2 Unit
CONTINUOUS AMBIENT AIR QUALITY MONITORING ANALYSER/SYSTEM	
General Specification for all Analyzers	
Sampling System	1 Unit
19" Rack	3 Unit
CONTINUOUS AMBIENT AIR QUALITY MONITORING ANALYSERS (GAS)	
Ambient SO ₂ , Analyser	1 Unit
Ambient NO-NO ₂ -NO _x , Analyser	1 Unit
Ambient NH ₃ , Analyser	1 Unit
Ambient CO, Analyser	1 Unit
Ambient O ₃ , Analyser	1 Unit
Ambient BTX, Analyser	1 Unit
CONTINUOUS AMBIENT AIR QUALITY MONITORING ANALYSERS (PARTICULATES) (1A. & 1B.)	
1A. Continuous PM ₁₀ Monitoring Analyser(β-RAY)	1 Unit
1B. Continuous PM _{2.5} Monitoring Analyser(β-RAY)	1 Unit
MULTI CALIBRATOR	

Multi Point Gas Calibration System	1 Unit
Meteorological, Flow and Electronics Calibration	1 Unit
METEOROLOGICAL SYSTEM	
Meteorological System comprising of sensors for (A) Wind Speed, (B) Wind Direction, (C) Ambient Temperature, (D) Relative Humidity, (E) Solar Radiation & (F) Rainfall, mounted on (G) Telescopic Crank-up Meteorological Tower	1 Unit
DATA ACQUISITION AND COMMUNICATION SYSTEM	
Data acquisition and handling system at stations	1 Unit
Work Station Computer at stations (for AQI Preparation)	1 Unit
Manageable CISCO Switch (Rack Mountable)	1 Unit
Remote Monitoring Tool/Software (For Stations and Central locations)	1 Unit
42 U Industrial Rack (For Central Station at SPCB)	1 Unit
Rack Server (For Central Station at SPCB)	1 Unit
Access Point (AP) (For Central Station at SPCB)	1 Unit
Unified Threat Management (UTM) device (For Central Station at SPCB)	1 Unit
Connectivity for Data Transfer (Station)	1 Unit
DATA ACQUISITION SOFTWARE FOR STATION (CAAQM)	1 Unit
DATA ACQUISITION SOFTWARE FOR CENTRAL STATION AT SPCB	1 Unit
DISPLAY BOARD DATA TRANSMISSION DEVICE (ONE AT CAAQM STATION AND ONE AT SPCB)	2 Unit
DAY LIGHT AND NIGHT VISIBLE DATA DISPLAY SYSTEM (ONE AT CAAQM STATION AND ONE AT SPCB)	3 Unit

2. SCOPE OF WORK: -

- 2.1 Contract to provide Services for continuous ambient air monitoring as per the CPCB specification.
- 2.2 Bidder must provide service at TWO locations and Locations will provide/decide by DPA.
- 2.3 Bidder will monitor SO_x, NO_x, NH₃, CO, O₃, BTX, PM₁₀, PM_{2.5}, and Metrological System (Wind Speed, Wind Direction, Ambient Temperature, Relative Humidity, Solar Radiation, Rainfall)
- 2.4 Bidder will submit report on below schedule:
 - i. Everyday 24 hrs. details report
 - ii. Weekly 12 hrs. average report
 - iii. Monthly 24 hrs. average report
- 2.5 Bidder will provide service for real time data transmit for CAAQM to CPCB and GPCB server as per their specification and their requirement.

- 2.6 DPA is not responsible for vendor's CAAQM system, Bidder will take care of their system security and full system insurance.
- 2.7 Scrolling display board require at main gate location and real time data will be scroll.
- 2.8 UPS and Internet connection is in Bidder's scope.
- 2.9 Bidder should appoint a qualified staff identified by the concerned educational institutions for each location to attend daily maintenance work, calibration works and repair works etc. Require qualification as per below:
 - i. 3 years' Experience: Engineer (EC/EE/IC) - 2 Nos.
 - ii. 2 years' Experience: Environment Engineer - 1 Nos.
- 2.10 DPA will release payment monthly basis after submitting report as per above schedule.
- 2.11 Bidder must be appointing security for their TWO locations. Its compulsory requirement for smooth operation.
- 2.12 Bidder must provide full service for the period of three years as per above requirement. DPA will not purchase the systems. Only DPA require CSMC for the periods of 3 years and DPA will release payment on monthly basis for the periods of 3 years. Total payment schedule is 36 months.
- 2.13 Further one expert apart from the stationed staff should be visit twice in the month during the contract period for maintaining and streamline operation of the system. Moreover, expert must be come at his own cost, when he will be called by DPA, if emergency problem rises in systems, no extra payment will be made
- 2.14 There is all responsibility of bidder to maintain and operation of online system along with submission of Online-data to SPCB/GPCB on daily basis as well DPA and replacements/repairs of necessary spare parts of system, if required.
- 2.15 The contract period will be for a period of 3 years. The rate (excluding GST) shall be quoted for 1st year, 2nd year & 3rd year separately and it shall be evaluated for total three years (**Attached annexure-I**).
- 2.16 Bidder shall provide one four wheel vehicle for the DPA officials at DPA office, Gandhidham to carry out regular visit the site locations.
- 2.17 Bidder shall deployed two assistants at Gandhidham Office for the subject work.

3 OBLIGATIONS OF DEENDAYAL PORT AUTHORITY

- 3.1 Necessary office space will be provided by DPA without furniture etc.
- 3.2 No local transport will be provided.
- 3.3 Office stationery will be borne by contractor
- 3.4 To provide electric supply for equipment however regular bills to be paid by bidder
- 3.5 To provide suitable accommodation facilities at Kandla Colony, however applicable charges to be borne by bidders

EOI PRICE BID

Name of work:- “ONLINE CONTINUOUS AMBIENT AIR QUALITY MONITORING (CAAQM) FOR
THE PERIOD OF THREE YEARS AT DEENDAYAL PORT AUTHORITY”.

Description	Amount In Rs.	
	In fig.	In words
Lump-sum charges including all taxes, duties for performing the above said scope of subject work. The amount quoted shall be exclusive of Goods & Service Tax .		
1 ST YEAR		
2 ND YEAR		
3 RD YEAR		
Total Rs.		

Stamp & seal with Signature of bidder