

	DELHI POLLUTION CONTROL COMMITTEE DEPARTMENT OF ENVIRONMENT, (GOVT. OF NCT OF DELHI) 5th FLOOR, ISBT BUILDING, KASHMERE GATE, DELHI- 6 visit us at : http://dpcc.delhigovt.nic.in	
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F.No. DPCC-I/6/2025-Sr.Env.Engg.(IT CELL)/ 230551/214

Dated: 17/3/2025

“INVITATION OF EXPRESSION OF INTEREST (EOI) for a PROOF-OF-CONCEPT (POC) on ANALYTICS in portals of Delhi Pollution Control Committee (DPCC)”

Delhi Pollution Control Committee (DPCC) invites Expression of Interest (EOI) for a Proof- of-Concept (PoC) on analytics in six portals of DPCC such as OCMMS, OLMS and C&D web portal etc.

Disclaimer: This EOI is not an offer by Delhi Pollution Control Committee (DPCC) or a tender document but it is an invitation to receive responses from eligible interested parties. The purpose of this EOI document is to provide such necessary information to interested analytics service providers that may be useful to them in formulating their proposals in response to this EOI.

Introduction:

Being a regulatory organization in the area of environment and pollution control, Delhi Pollution Control Committee (DPCC) gives utmost importance to data driven decision- making. By hosting six crucial portals such as Online Consent Management & Monitoring System, Online Continuous Emission / Effluent Monitoring system, Dust Pollution Control Self-Assessment, Real Time Ambient Noise Monitoring Network, Real time Ambient air quality Data, and the Green Delhi Application; Delhi Pollution Control Committee (DPCC) has accumulated a rich collection of data on public procurement.

Presently this data is being used primarily for consent management, monitoring of air and water quality data, and grievance redressal and

contains minimal drill down dashboards, and basic level of overview of data from different sources, non-compliance detection, and an online platform for monitoring, managing, and resolving grievances effectively. Delhi Pollution Control Committee (DPCC) intends to perform advanced predictive and prescriptive analytics. For this purpose, Delhi Pollution Control Committee (DPCC) intends to invite commercial entities to perform Proof of Concept (PoC) and demonstrate best practices and technologies in the areas of AI, Data Analytics (DA) & Machine Learning (ML) using the available data.

Basic description of the portals:

1. Online consent management and monitoring system (OCMMS) for online processing of the following: -

- i. Consent under Air Act 1981 / Water Act 1974
- ii. Authorization under Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016 / Amendment Rules 2022
- iii. Authorization under Bio Medical Waste Management Rules 2016
- iv. Authorization under Construction and Demolition Waste management Rules 2016
- v. Application of importers under Hazardous Waste Rules 2016
- vi. Authorization under Solid Waste Management Rules 2016

2. Continuous emission monitoring system (CEMS)

STPs of DJB, CETPs, STP / ETP of five-star hotels, large hospitals (having more than 100 beds), Power plants, Common Bio-medical Waste Facilities and Red Category Grossly polluting industry are connected to the portal of DPCC for display of real time monitored data.

3. Green Delhi App

Green Delhi App has been developed for information, awareness and redressal of citizen grievances related to pollution issues on a single platform and allows for citizens to record different kinds of pollution offences to be resolved 27 agencies of Delhi on one platform both for android and iOS mobile phone users. The grievances uploaded on Green Delhi App are monitored through Green War Room. More than 81000 complaints received through this app and resolution of more than 88% is done.

4. Dust Pollution Control Self-Assessment

Delhi Pollution Control Committee has developed an online mechanism through a Web Portal called “Dust Pollution Control Self-Assessment” at <https://dustcontroldpcc.delhi.gov.in> for self-assessment by construction agencies with respect to dust pollution in their sites in pursuance of directions dated 11.06.2021 by Commission for Air Quality Management (CAQM) in National Capital Region and Adjoining Areas.

The above said mentioned directions envisage the following compliances by project proponents:

1. All current/ upcoming projects (on plot area equal to or greater than 500 square meters) of construction and demolition for civil structures are required to mandatorily register at the web portal.
2. To self-monitor/ self- audit their activities on the parameters mandated/ directed for compliance and to take necessary steps, if required, to improve the status of compliance.
3. The project proponents are required to carry out self- audit / self-determination for dust control measures on the parameters provided on the Web Portal and upload a self-declaration on a fortnightly basis.
4. The provision of video fencing with remote connectivity of the projects (within the municipal area of NCR and plot area equal to or greater than 500 sqm) is part of portal.
5. Reliable low cost PM2.5 and PM10 sensors are to be installed at the project site and linked to a cloud storage platform with a live Dash Board in the Web portal.

5. Real Time Ambient Noise Monitoring Network

DPCC has a network of Real Time Ambient Noise Monitoring comprising 31 nos. Noise Monitoring Terminals (NMTs) installed in different land-use areas to assess the real time noise levels. Seven (07) stations are situated in silence zone which includes educational institutions and hospitals, eleven (11) stations in commercial areas which includes markets and stadiums, eight (08) stations in residential areas and five (05) stations in industrial areas.

6. Real time Ambient air quality Data

DPCC has a network of 24 nos. Continuous Ambient Air Quality Monitoring Stations (CAAQMS) to assess the real time air quality data

according to NAAQS, 2009. The stations monitor gaseous concentration along with particulate matter and meteorological parameters in real time.

Expression of Interest (EOI)

The Expression of Interest (EOI) is invited from the eligible entities, as per the eligibility criteria, who are solution providers in the specific area of AI, Data Warehouse, DA and ML, development and implementation.

The job includes design, development, implementation of analytics' best practices in data cleaning, transforming, modelling, through latest technologies including AI and ML, extracting relevant insights and developing at least one software module which shall be implementable on Delhi Pollution Control Committee (DPCC) platform.

The details of data available with Delhi Pollution Control Committee (DPCC) shall be shared only with the agencies selected for the PoC. The data shall be related to the closed transactions on Delhi Pollution Control Committee (DPCC). The Delhi Pollution Control Committee (DPCC) policy on sharing of Personal Information (PI) and Personally Identifiable information (PII) and statutory requirements shall be complied with while sharing the data with the entities performing PoC. The entities might be asked to perform PoC in separate areas such as- consent management, inline monitoring of air, water and noise quality, and public grievance redressal or multiple entities might be asked to compete in the same area with the same data sets. A committee of Delhi Pollution Control Committee (DPCC) shall evaluate the outputs of the PoC. Some of the probable problems for PoC are indicated in the Annexure, however, they are just for illustration purpose.

In longer term, Delhi Pollution Control Committee (DPCC) might on-board an entity or multiple entities to perform analytics on Delhi Pollution Control Committee (DPCC) data on commercial basis. Demonstration of PoC is expected to help decide sizing, specification and other details towards setting up an operational scale data warehouse and analytics platform in Delhi Pollution Control Committee (DPCC). For setting up an operational scale data warehouse and analytics platform and perform analytics on commercial basis, Delhi Pollution Control Committee (DPCC) might float

Request for Quotations (RFQ)/Request for Proposals (RFP) among entities demonstrating successful PoC. Details requirements and eligibility criteria for the RFQ is not part of this EoI and shall be shared separately. Delhi Pollution Control Committee (DPCC) does not guarantee that, all the entities successfully demonstrating the PoC shall be eligible to respond to the RFQ as it may include additional eligibility requirements such as related to financial strength of the entity etc.

Duration of PoC

Duration of PoC shall be 8 weeks from the date of placement of offer for PoC.

Commercial Terms

This EoI is non-commercial and no remuneration in any way whatsoever shall be paid to the entities performing the PoC.

Eligibility Criteria

The minimum eligibility criteria for an entity to participate in the PoC are as follows-

1. The entity must be a company or Limited Liability Partnership (LLP) registered in India under relevant applicable Acts and Laws.
2. The entity must have executed atleast one data analytics project for a commercial organization or government body/ department globally including the following:
 - a. Setting up a Data Warehouse including Staging and ETL
 - b. Setting up analytics platform and perform analytics, including visualization

In case, the activities mentioned in the points (a) & (b) are performed as part of two separate projects, both the projects must be showcased as part of the response to this EoI.

Documents to be Submitted:

The following documents are required to be submitted as part of the response to this EoI:

1. Document supporting Eligibility Criteria at S.No. 1
2. Case study (Max. 2 pages) on the work performed under Eligibility

Criteria S.No. 2. The Personal Information (PI) and Personally Identifiable Information (PII) can be masked in the case study/ies, if required.

3. An introduction of the entity submitting the proposal (Max 1 page) Delhi Pollution Control Committee (DPCC) reserves the right to select or reject any of the proposals received against this EoI. Eligible entities who have competence and experience to carry out such work are requested to submit the EOI along with supporting documents through e-mail to srscitdpcc.delhi@nic.in with a copy to msdpcc@nic.in to **reach on or before 1800 Hrs on 15th April 2025**. No hardcopy of the documents is required to be submitted.

Important timelines:

Event	Timeline
Last date of submission of responses	15th April 2025, 1800 Hrs

Date of presentation will be intimated through email separately in April 2025.



(Pankaj Kapil)
Additional Director

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Annexure:

Illustrative problem statements for PoC:

1. There might be instances where industrial units do not comply with terms and conditions mentioned in the consent / authorization certificate. There might also be instances where industrial units do not apply for consents/ subsequent consents / renew their consent / authorization certificate or submit fake data in consent / authorization applications. Lack of robust mechanisms to verify the authenticity of submitted compliance reports. Such behaviors are to be analyzed and a pattern is to be found to detect any need for correction/intervention, and an auto tech mechanism evolved.
2. There might be instances where construction and demolition projects do not comply with criteria in self-assessment proforma or government regulations, or submit fake compliance data or relay non validated false data over web cameras and AQ sensors. There might also be instances where real time monitoring data/visuals is not translated immediately into triggers and auto alerts to project proponents as well as the regulators.
3. The interface of all portals might face issues of being not user-friendly, resulting in difficulties for users to navigate, register, monitor and submit compliance reports. Thus, there might be a requirement to simplify the user interface, online processes and ensure seamless functionality with minimal technical glitches in all the portals for better optimization.
4. The problems which might be facing the monitoring portals such as water, air and noise are Lack of Predictive Insights, Accessibility Issues, Data Interpretation Challenges, Limited Customization, Absence of Data Comparisons, Minimal Citizen Engagement, and actionable points for government.
5. Lack of generative AI coach to guide the industrial units / project proponents / users through the online processes, answer their queries, and generate relevant content in their preferred mode of communication, including chatbots.

The above examples are for illustration purpose only. The participating entities may propose their own ideas and different ideas may be taken/given for the PoC. The decision of Delhi Pollution Control Committee (DPCC) in this regard shall be final.
