



PRAYAGRAJ MUNICIPAL CORPORATION

Invites Expression of Interest (EoI)

For

“Expression of Interest (EOI) from interested agencies for “Feasibility study for Mechanized Sweeping of road less than 09 meters or as per actual (Wall to wall) and water sprinkler Machine (with Fog Cannon/anti-smog gun/dust suppression System) of suitable configuration as per UPPCB/CPCB guidelpines for PMC roads”

A. Background

Air quality regulation and actions for abatement of air pollution is undertaken under various provisions of Air (Prevention and Control of Pollution) Act, 1981 and Environment (Protection) Act, 1985 which prescribes the mechanism and authorities for handling the issue of air quality. The Indian Government is executing a nation-wide programme of ambient air quality monitoring known as National Air Quality Monitoring Programme (NAMP). The network consists of Six hundred and Ninety-One (691) manual operating stations covering Three Hundred and three (303) cities/towns in twenty-nine (29) states and four (6) Union Territories of the country. In addition, there are 86 real-time Continuous Ambient Air Quality Monitoring stations (CAAQMS) in 57 cities.

CPCB is executing a nation-wide National Air Quality Monitoring Programme (NAMP). The ambient air quality monitoring network has 691 operating stations covering 303 cities/towns in 29 States and 6 Union Territories. Prayagraj is one of these cities, and Prayagraj Municipal Corporation (PMC) is committed to maintain the ambient air quality in the city.

Prayagraj is a city in the state of Uttar Pradesh, located at the confluence of Ganga and Yamuna rivers. PRAYAGRAJ MUNICIPAL CORPORATION (PMC), constituted under the U.P. Pallika, Act 1959, is the administrative body headed by the Mayor of the city. The city is divided into 08 Zone and 100 wards.

PMC intends to significantly improve air quality of the Prayagraj and hence desires to appoint an agency for maintenance of vehicles (Modified) to support with the same.

However, for road stretches with RoW less than 09 meters or as per actual, the continuous and safe operation of standard RSMs is highly constrained due to limited maneuvering space, frequent encroachments, on-street parking, high pedestrian movement, and mixed traffic conditions etc and the continuous and safe operation of standard Water Sprinkle Machine's is highly constrained due to limited maneuvering space for cleaning of road, Divider, statue's, tree's, etc

In view of these operational challenges, there is a need to explore specially designed compact mechanical sweeping solutions for such narrow roads & Water Sprinklers. This may be undertaken through a structured feasibility study followed by pilot deployment under actual field conditions, in order to evaluate their technical suitability, operational efficiency, and cost-effectiveness before considering large-scale adoption.

2- Objective and Scope of the requirement

- In order to address this requirement and to move towards the mandate of the Commission Air Quality Management (CAQM) for mechanized sweeping & water sprinkle of all roads, the Municipal Corporation of Prayagraj (PMC) intends to invite Expression of Interest (EOI) from interested agencies, service providers, or manufacturers with similar experience in mechanical road sweeping and Water sprinkler equipment working in this field. The purpose of the EOI is to identify suitable partners to undertake following:

2.1. Financial and Work experience of Firm for RSM:

1- The bidder should have minimum average annual turnover for 7 cr. In last 3 FY (2022-23, 2023-24 & 2024-25)

2- The bidder should have minimum of 3 years' experience in Supply, Operation and maintenance of Mechanical Road Sweeping Machines (MRSMs) with ULB/Central/state Govt. Departments and must be compliant on below mentioned criteria:-

One similar work not less than 10 no. of similar vehicles (satisfactory work).

OR

Two similar works not less than 06 no. of similar vehicles (satisfactory work).

OR

Three similar works not less than 05 no. of similar vehicles (satisfactory work).

2.2. Financial and Work experience of Firm for Water Sprinkler Machines (with Fog Cannon/anti smog gun/dust suppression System):

- The bidder should have minimum average annual turnover for

4 cr. In last 3 FY (2022-23, 2023-24 & 2024-25)

- The bidder should have minimum of 3 years' experience in Supply, Operation and maintenance of Mechanical Water Sprinkler Machine (with Fog Cannon/anti smog gun/dust suppression System) with ULB/Central/state Govt. Departments and must be compliant on below mentioned criteria:-
One similar work not less than 10 no. of similar vehicles (satisfactory work).

OR

Two similar works not less than 06 no. of similar vehicles (satisfactory work).

OR

Three similar works not less than 05 no. of similar vehicles (satisfactory work).

2.2.1. Feasibility Study:

2.2.2. The scope under this covers conducting assessment on ground for feasibility deployment of Mechanical Road Sweeping Machines (MRSMs) on roads having RoW than 09 meters or as per actual across and water sprinkler machine (with Fog Cannon/anti-smog gun/dust suppression System) on any of the 08 zones under PMC jurisdiction, covering the following:

- Mapping and identification of some of the suitable/representative narrow stretches forming a lot where at least one MRSMs can be suitably & effect utilized & water sprinkler machine (with Fog Cannon/anti-smog gun/dust suppression System) capacity to throw fog particles upto 30 mtr (in windless conditions) with fog cannon/anti smog gun/dust suppression system..
- Analysis of traffic patterns, encroachments, parking constraints, and operatic challenges on the selected stretches.
- Selection & recommendation of MRS machine & water sprinkle machine based on size, turning radius, d capture efficiency, and

safety requirements with suitability and utility on selected stretches.

- Any other data/requirement mandatory for effective mechanised sweeping roads having RoW less than 09 meters or as per actual and water sprinkler machine (with Fog Cannon/anti-smog gun/dust suppression System) capacity to throw fog particles upto 30 mtr (in windless conditions).
- Type and Configuration of Machines Recommendations:
 - After identifying potential stretches through the feasibility study, recommend suitable types/configurations of MRSMs & water sprinkler machine(with Fog Cannon/anti-smog gun/dust suppression System), including:
 - 2.2.2..1. Technical specifications (Maneuverability, approach to edges of roads dimensions, capacity, sweeping mechanism etc.)
 - 2.2.2..2. The type of fuel suggested must be Electric/CNG/Diesel.
 - 2.2.2..3. Deployment strategy (routing, staffing, operating hours, integration with manual sweeping required/not).
 - 2.2.2..4. Techno-economic utility, viability and scalability potential for wider adaptation.
 - 2.2.2..5. The Proposed MRS machines are at least PM 2.5 & PM 10 compliant.
 - 2.2.2..6. As per CAQM guidelines, small-size Mechanical Road Sweeping Machines (MRSMS) with hopper capacity of less than 6 m³ and operating width of less than 3 meters are recommended for sweeping roads with Row of less than 09 meters or as per actual. & water sprinkler machine(with Fog Cannon/anti-smog gun/dust suppression System) capacity to throw fog particles upto 30 mtr with fog cannon/anti smog gun/dust suppression system.

➤ **Conclusion of the study:**

- 2.2.2..1. Technical discussions/presentations will be held with the prospective stakeholders. During these technical discussions/presentations, the PMC may also add other stakeholders who could add value to the decision-making on the various



technical aspects and evaluation criteria.

2.2.2..2. The PMC may invite for Demonstration of the shortlisted machinery/solution if seems required.

2.2.2..3. The detailed report mentioned in the feasibility study outcome, economics for implementation, challenges, availability of the manufacturer/service provides for the proposed solution and machinery etc. will pave way for pilot project with initial 5 such bunch of stretches.

➤ **Instructions to the bidders:**

2.2.2..1. This EOI is only for a technical feasibility study of suitable MRSM technologies/configurations for roads less than 09 meters or as per actual width and water sprinkle machine capacity to throw fog particles upto 30 mtr with fog cannon/anti smog gun/dust suppression system for cleaning of road, Divider, statue's, tree's, etc; no payment or work award is envisaged at this stage.

2.2.2..2. The Interested bidders/participants are encouraged to select/choose at least 05 bunch stretches of minimum length of 30 KM of that particular zone.

2.2.2..3. Any Interested bidders dealing in line may participate in EOI process; there will not be any eligibility criteria to shortlist the bidders.

2.2.2..4. As an outcome, PMC aims to identify generic technical approaches and indicative specifications for compact MRSMs for narrow roads and water sprinkler machine (with Fog Cannon/anti-smog gun/dust suppression System) for cleaning of road, Divider, statue's, tree's, etc; a separate RFP/tender may be issued later at PMC's discretion.

2.2.2..5. Bidders should familiarize themselves with typical narrow-road conditions in Prayagraj and submit practical, field-oriented concepts at their own cost and responsibility.

2.2.2..6. No claims or compensation shall be entertained for participation in this EOI or for concepts submitted; all proposals and documents shared with PMC may be used by PMC for

planning and future tendering.

2.2.2..7. PMC reserves the right to accept or reject any or all EOI responses, to cancel or modify the EOI at any time, or to proceed in any other manner it deems appropriate, without assigning any reason and without any bidder.

2.2.2..8. Any future RFP/tender, if issued, may have modified scope, eligibility criteria and conditions, and that participation or shortlisting in this EOI will not give any preference, advantage or vested right in such future processes.

2.2.2..9. All reports, concepts, feasibility notes, presentations, and other documents submitted to PMC shall become PMC's property and may be used for planning, policy, and future tenders, with due acknowledgement but without any separate fee.

J) All costs for preparation, submission, visits, surveys, data collection and presentations shall be Borne entirely by the bidder and that PMC will not be liable for any such expenses under any circumstances.

B. Formats for submission:

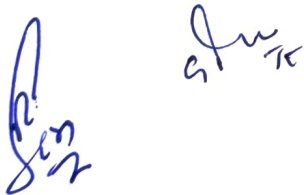
The EoI document can only be downloaded online from <https://etender.up.nic.in/nicgep/app> and not available manually. Anyone can download this document. The interested agencies/firms which are not registered in online tendering with PMC shall have to register itself first and then only they can participate in the bids. The procedure for registration can be seen at <https://etender.up.nic.in/nicgep/app>

1. The Bidder shall submit an undertaking along with the technical bid for Supply, Operation & Maintenance work of Mechanical Road Sweeping Machine:

- Participating bidder is OEM or Reseller. Detail must be attached with Document
- Complete Detail of RSM. (Full specification of Machine, Brocher of Machine, capacity of Machine, warranty/guaranty of machine and dimension of machine)
- Certification for confirming of PM2.5 & PM10 for proposed machine.
- Minimum requirement of working of machine:- 30 KM per day and

- 750KM per month Approx
- Rate for supply of machine (CNG, Diesel, Electric Operated)
 - Rate for Operation and maintenance of same machines on per KM basis (Incl. Fuel, all types of taxes, etc)
2. The Bidder shall submit an undertaking along with the technical bid for Supply, Operation & Maintenance work of water sprinkler machines (with Fog Cannon/anti-smog gun/dust suppression System)
- Participating bidder is OEM or Reseller. Detail must be attached with Document.
 - Complete Detail of water sprinkler machines (with Fog Cannon/anti-smog gun/dust suppression System). (Full specification of Machine, Brocher of Machine, capacity of Machine, warranty/guaranty of machine and dimension of machine).
 - Minimum requirement of working of machine:- 30 KM per day and 750KM per month Approx.
 - Rate for supply of machine (CNG, Diesel, Electric Operated).
 - Rate for Operation and maintenance of same machines on per KM basis (Incl. Fuel, all types of taxes, etc).

“Each document submitted by me/us (name of the firm) is true and authentic to the best of my/our knowledge. In the event of any misrepresentation of data/facts in respect to the work of this EOI, coming to the notice of the department at any stage, our firm (name of the firm) shall be liable for suitable action by the department as deemed fit, but strictly be barred from participation directly/in-directly in relation of this work” (Scanned copy to be uploaded at the time of submission of technical bid).





Prayagraj Nagar Nigam
1 Sarojani Naidu Marg,
Prayagraj- 211001
Uttar Pradesh.



EOI NOTICE


This is to inform to all prospective bidders having the required qualification mentioned in the EOI document that municipal corporation Prayagraj invited EOI for Expression of interest for supply, operation and maintenance of Mechanized Road Sweeping Machine & water sprinkler Machine (with Fog Cannon/anti-smog gun/dust suppression System) of suitable configuration as per UPPCB/CPCB guidelines for PMC roads.

Schedule for EOI

S.no.	Activity	Date	Time
01	EOI Document Availability	07/05/2026	14:00 hrs onwards
02	Last Date of EOI Submission	14/05/2026	15:00 hrs onwards
03	EOI opening Date	14/05/2026	16:00 hrs onwards

For more details, please visit the website at <https://etender.up.nic.in/nicgep/app>


Chief Engineer (E/M)
Ngar Nigam Prayagraj.


05/05/26