



# पनवेल महानगरपालिका

ता.पनवेल, जिल्हा-रायगड, पनवेल ४१० २०६

दुरध्वनी कार्यालय : ०२२- २७४५८०४०/४१/४२

ई-मेल : panvelcorporation@gmail.com

वेबसाईट : www.panvelcorporation.com

जा.क्र.- पमपा/मातंवि/२०२५/प्र.क्र.०४/१९८/२०२५

दिनांक : ०४/०६/२०२५

## Expression of Interest (EOI)

**Name of work:** Expression of interest (EOI) for supply, installation, testing, commissioning, operation and maintenance of Adaptive Traffic Signal Control (ATSC) system

### Scope of work:

Panvel Municipal Corporation (PMC) invites proposals against EOI from interested parties for submitting unit rates for supply, installation, testing, commissioning, operation and maintenance of Adaptive Traffic Signal Control (ATSC) System in Panvel Municipal Corporation area. The items proposed for installation under Adaptive Traffic Signal Control (ATSC) system project are provided in prescribed formats for submission and can be accessed in the EOI document uploaded on the website [https:// www.panvelcorporation.com](https://www.panvelcorporation.com)

An Adaptive Traffic Signal Control (ATSC) system uses real-time traffic data (from cameras, sensors, etc.) to automatically adjust the timing of traffic signals to improve traffic flow, reduce congestion, and enhance safety- especially for pedestrians and public transport users also enhance urban mobility.

Interested applicants are requested to submit their responses for the EOI on or before, 13 June 2025, 3:00 PM at the office of Information Technology Department, Panvel Municipal corporation.

### Instructions to applicant for EOI submission:

1. Panvel Municipal Corporation intends to invite applications from parties for submission of Unit Rates for Supply, Installation, Testing, Commissioning, Operation and Maintenance of Adaptive Traffic Signal Control (ATSC) system in Panvel Municipal Corporation (PMC) area.
2. The tentative scope of work and services required for supply, installation, testing, commissioning, operation and maintenance of Adaptive Traffic Signal Control (ATSC) system is available on Panvel Municipal Corporation website <https://www.panvelcorporation.com>.
3. The Applicant are required to study the scope of work and services required to be provided for supply, installation, testing, commissioning, operation and maintenance of Adaptive Traffic Signal Control (ATSC) system and submit their unit rates for the individual items.

4. The applicants are invited to submit the following documents along with the EOI document:
  - a. PAN Card
  - b. GST Certificate
  - c. Company registration certificate
5. The EOI proposal received with terms and conditions will be rejected.
6. Panvel Municipal Corporation reserves the right to accept at their sole discretion any EOI proposal for whole or part or reject any or all EOI proposals without assigning any reason thereof.

Sr. No.	Item Description	Unit	Qty.	Basic Unit Rate (excluding GST)	GST	Unit Rate (including GST)	Total Unit Rate (including GST)	Remarks
1	Supply of Adaptive Traffic controllers - Advanced processing Unit (APU) containing 32-bit Microcontroller GPS enabled with Remote monitoring and control Features, including Controller Cabinet, Controller Foundation, Interface card for Video Detection Camera, etc. all complete	Nos	1					
2	Supply of Traffic Video Detection Camera system - One Sensor / Detector per road (Min of 3 lanes) as per specification	Nos	1					
3	Supply of Signal light aspect - 300 mm LED Aspects including housing & hood - for Vehicular RED as per EN12368 specification	Nos	1					
4	Supply of Signal light aspect - 300 mm LED Aspects including housing & hood - for Vehicular AMBER as per EN12368 specification	Nos	1					
5	Supply of Signal light aspect - 300 mm LED Aspects including housing & hood - for Vehicular GREEN as per EN12368 specification	Nos	1					
6	Supply of Signal light aspect - 300 mm LED Aspects including housing & hood - for Vehicular Composite (RED/GREEN) as per EN12368 specification	Nos	1					
7	Supply of Signal light aspect - 300 mm LED	Nos	1					

Sr. No.	Item Description	Unit	Qty.	Basic Unit Rate (excluding GST)	GST	Unit Rate (including GST)	Total Unit Rate (including GST)	Remarks
	Aspects including housing & hood - for Pedestrian Composite (RED/GREEN) as per EN12368 specification							
8	Supply of Graphical/Alphanumeric Count Down Timer (GCDT) - One Count Down timer per road	Nos	1					
9	Supply, installation of Numeric Count Down Timer (NCDT) for Pedestrians - One Count Down timer per Pedestrian aspect	Nos	1					
10	Supply of Pole Junction Box with accessories / connectors etc. - as per requirement for termination of Signal cables	Nos	1					
11	Supply of Power Management Unit (PMU) with 2 nos. 100AH SMF batteries for power backup for operation of Traffic Signal during Power failure	Nos	1					
12	Supply of Standard Signal pole - 6m including painting, RCC Foundation, etc. all complete	Nos	1					
13	Supply of Cantilever Signal pole - 12m including painting, RCC foundation, etc. all complete	Nos	1					
14	Supply of Signal Cables and Fixtures (ferrules, lug, labels, tags, etc.) for Underground Cabling - 16 core 1 sq mm Armoured cables	Mtr	1					
15	Supply of Signal Cables and Fixtures (ferrules, lug, labels, tags, etc.) for Underground Cabling - 5 Core 1 sq mm Armoured cables	Mtr	1					
16	Supply of Signal Cables and Fixtures (ferrules, lug, labels, tags, etc.) for Underground Cabling - 2 pair twisted Armoured cables	Mtr	1					
17	Supply of Power cable for Supply of Raw power from Tapping point to Junction Controller Cabinet - Armoured 2 core - 2.5 Sq.mm	Mtr	1					
18	Supply of Chambers near pole and controller locations for facilitating cable pulling and	Nos	1					

Sr. No.	Item Description	Unit	Qty.	Basic Unit Rate (excluding GST)	GST	Unit Rate (including GST)	Total Unit Rate (including GST)	Remarks
	termination - Pre-cast with suitable cover							
19	Supply of DWC Pipe with joint coupler as per requirement for underground cabling - 90mm	Mtr	1					
20	Supply of GI Pipe with joint coupler as per requirement for underground cabling - 65mm	Mtr	1					
21	Cutting of road surface for DWC/GI pipe laying - Bituminous Road Surface or Footpath for a depth of 450 to 600mm below ground level and disposal of remaining debris from site after refilling the trench with excavated earth material.	Mtr	1					
22	Cutting of road surface for DWC pipe laying - Concrete Road Surface for a depth of 450 to 600mm below ground level and disposal of remaining debris from site after refilling the trench with excavated earth material.	Mtr	1					
23	Chemical based Earthing - Electrical Earthing as per requirement at Controller Cabinet	Nos	1					
24	Supply of Power Supply Junction Box for Raw power with all necessary equipment's like Fuse, DP Switch, etc. including DWC pipe for cable entry & exit, door with glass, as per the requirement of Power Supply Agency.	Nos	1					
25	Installation of all equipment including controller, poles, cables, LED aspects, Timers, Video Detection Camera, LPUs (Local Processing Unit), Power Supply Box, etc. all complete for Testing and Commissioning of Junction	Nos	1					
26	Testing and Commissioning of Junction including programming and configuration of Traffic Controller and integration at Traffic Control Room with the Adaptive Traffic Signal Control (ATSC) Software	Nos	1					
27	Network Connectivity: One time Cost per junction for Network Connectivity with 4G SIM & Router	Nos	1					

Sr. No.	Item Description	Unit	Qty.	Basic Unit Rate (excluding GST)	GST	Unit Rate (including GST)	Total Unit Rate (including GST)	Remarks
28	Network Connectivity: One time cost for Network Connectivity from reputed ISP at Traffic Control Room	Nos	1					
29	Supply of Server & workstation at Traffic Control Room - to support up to 100 Traffic Signal junctions setup as per requirement	Nos	1					
30	Supply & Installation of Software for ATSC system - Adaptive traffic control software using real-time traffic data from detectors including mobile based Ticket Management system for Service Level (SLA) Monitoring	Nos	1					
31	Annual charges for providing required network connectivity per Traffic Signal junction	Nos	1					
32	Annual charges for providing required network connectivity at Traffic Control Room	Nos	1					
33	Annual Charges for Maintenance of Traffic signal	Nos	1					
34	Annual Charges for Maintenance of Traffic Control Room infrastructure	Nos	1					
35	Supply & Installation of ClearWay or any other similar Application for Emergency Vehicle Priority System (EVPS)	Nos	1					
36	Annual Charges for Maintenance of ClearWay or any other similar Application for Emergency Vehicle Priority System (EVPS)	Per Year	1					
37	Supply & Installation of ePath or any other similar Application for Emergency Vehicle Priority System (EVPS)	Nos.	1					
38	Annual Charges for Maintenance of ePath or any other similar Application for Emergency Vehicle Priority System (EVPS)	Per Year	1					

Interested applicants are requested to submit their responses for the EOI on or before, 13 June 2025, 3:00 PM at the office of Information Technology Department, Panvel Municipal corporation.

Signed by  
Swarup Manik Kharage  
Date: 04-06-2025 16:50:20

**Deputy Commissioner (IT),  
Panvel Municipal Corporation**