Bhubaneswar Smart City Limited

5th Floor, ICOMC Tower, Bhoi Nagar, Bhubaneswar- 751022
E-mail Id: bbsr.bscl@gmail.com, CIN: U74990OR2016PLC020016
Telephone-0674- 2548428 FAX: 0674-2540811

No: 1337/BSCL/2025 Date: 04.10.2025

Corrigendum

"Selection of agency for Supply, Installation, Commissioning and Maintenance of Adaptive Traffic Signal Control System with Mobile application for Emergency Vehicle Movement and CDT (Amber and Red) for 25 Location in Bhubaneswar City."

RFP NO. 1180/BSCL, Dated 30th August, 2025

Bhubaneswar Smart City Limited (BSCL) hereby issues this notice for the attention of all potential bidders. For detailed information regarding Count Down Timer (CDT) Display, Emergency Vehicle Priority, Police Panel (POPA) Remote Junction Operations via Mobile Application, please refer Annexure-I uploaded at the BSCL website https://www.smartcitybhubaneswar.gov.in/ and Odisha e-procurement website https://tendersodisha.gov.in/.

BSCL reserves the right to cancel this invitation and/or invite fresh Bid/RFP with or without amendments to this invitation, without liability or any obligation for such invitation and without assigning any reason. BSCL reserves the right to accept or reject any or all proposals without assigning any reason whatsoever.

04/10/25
General Manager
Bhubaneswar Smart City Limited

Memo No.1338/ BSCL/2025 Date 04.10.2025

Copy submitted to PS to Managing Director, BSCL for kind information of Managing Director, BSCL.

04/10/25
General Manager
Bhubaneswar Smart City Limited

ANNEXURE-I

1. Count Down Timer (CDT) Display

Objective

The primary objective of the Countdown Timer (CDT) is to receive traffic signal controller data regarding mode of operation and stage-wise signal phase timings (green, red, amber) for configured phases, and accurately display this information in real-time according to predefined or customizable display specifications. This enhances pedestrian and vehicular awareness of traffic signal status, improving safety and traffic flow efficiency.

Key Functional Requirements

- The countdown timer should be in multi colour, Red for Stop, Green colour for Go and Yellow for flash/Amber.
- The configuration of the Countdown Timer shall be available at the TMC for Fixed time Signals. However, in case of Adaptive Traffic Signal mode, the Timer shall display as per real-time decision taken by the ATCS system for each phase cycle.
- The CDT should be able to show Mode of operation eg: pre-timed, vehicle actuated, ATCS, manual, emergency priority, flash etc. while operating in vehicular actuated mode.
- The CDT should display operations as per the below modes
    - **Fixed Mode** (FXD): The CDT should show "FXD" in green or red according to the current phase and should display the green, red, and amber countdown timings for the active phase.
    - **Vehicle Actuation Control Mode** (VAC): The CDT should show "VAC" in green or red according to the current phase. After finishing green phase once amber starts it should count down in amber in the configured amber time after that it goes to red. This will give an indication of green termination with countdown value in amber. When a phase goes from red to green, CDT should count down in amber colour for the configured amber time of the previous phase.
    - **Adaptive Traffic Control** (ATC): The CDT should show "ATC" in green or red according to the current phase. CDT sequencing in ATC mode should be similar to VAC mode of operation as mentioned above.
    - **Manual Mode**: The CDT should show "MNL" in green or red according to the current phase. During the amber phase, it should display the countdown values in amber, based on the configured timing.
    - **Hurry Call Mode**: The CDT should show "HCL" in green or red according to the current phase. During the amber phase, it should display the countdown values in amber, based on the configured timing.
    - **Forced Flash mode**: It should show "--" or "FF" in CDT in amber color for all phases.
    - **All Red Mode**: CDT should show "--" or "AR" in red for all phases.
    - **Lamp off Mode**: CDT should show "LOF" for all phases.
    - **Emergency Vehicle Pre-emption (EVP)**: The CDT should show "EVP" in green or red, matching the active phase color. In the amber phase, it should display the countdown in amber, based on the configured timing.

2. Emergency Vehicle Priority System

Objective

To implement an intelligent Emergency Vehicle Priority System that ensures faster and safer movement of emergency vehicles by dynamically prioritizing traffic signals, thereby optimizing response times and improving patient survival rates during the critical golden hour.

Key Functional Requirements

- The real time location data of the emergency vehicle should be sent to Centralized Emergency Service Vehicle Monitoring application (At least in 5 sec interval) from a mobile app of the driver / device installed in the emergency vehicle dashboard or from an AIS-140 compliant VLT (Vehicle Location Tracking) device fitted on the vehicle.
- The Centralized application should communicate with the traffic signal controller to enable transit priority green signal for the respective phase where the emergency vehicle passes through the intersection.
- The centralized application should provide detailed and customizable reports on emergency vehicle movements and alerts.

3. Police Panel (POPA) Remote Junction Operations via Mobile Application (Minimum Requirement)

Objective

The POPA mobile application shall enable authorized traffic police personnel to remotely control traffic signal junctions directly from their mobile devices, ensuring quick and efficient management of traffic flow on the go.

Key Functional Requirements

- The application must support the core remote operations of POPA such as Hurry Call, Manual, Flash Mode, All red, Lamp OFF.
- The application should show live status updates of junction signals.
- The remote execution of the Police panel operation should be allowed only within the defined geofence area (which should be configurable) of the traffic signal controller.